

PAM BY Friday

Access DB# 115765

(10)

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Walter Briney Examiner #: 79993 Date: 3/2/04  
 Art Unit: 2644 Phone Number 305-0347 Serial Number: 101062, 686  
 Mail Box and Bldg/Room Location: 8D11 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Optimization of DSL compatible POTS Linecard

Inventors (please provide full names): Nordin, Ronald A. (Lucent)  
Pasthuma, Carl R.

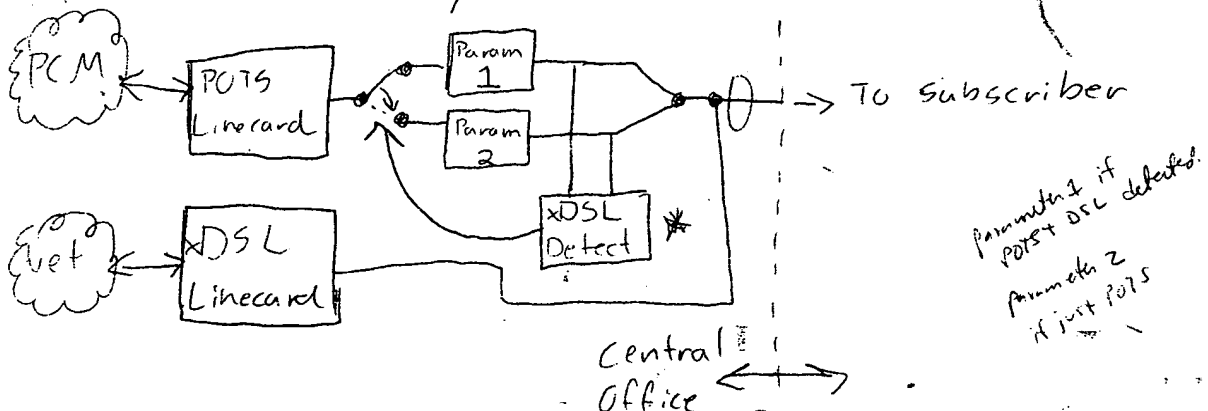
Earliest Priority Filing Date: 1/31/02

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Concepts:

◦ Detecting presence of xDSL signals on a subscriber loop.

◦ Vary function or parameters of a POTS linecard in presence of xDSL.



## STAFF USE ONLY

Searcher: Pamela Reynolds  
 Searcher Phone #: 306-0215  
 Searcher Location: PL2 3163  
 Date Searcher Picked Up: 3-3-04 11:20  
 Date Completed: 3-3-04 1:50  
 Searcher Prep & Review Time: 43  
 Clerical Prep Time: \_\_\_\_\_  
 Online Time: 97

## Type of Search

NA Sequence (#) \_\_\_\_\_  
 AA Sequence (#) \_\_\_\_\_  
 Structure (#) \_\_\_\_\_  
 Bibliographic ☒  
 Litigation \_\_\_\_\_  
 Fulltext \_\_\_\_\_  
 Patent Family \_\_\_\_\_  
 Other \_\_\_\_\_

## Vendors and cost where applicable

STN \_\_\_\_\_  
 Dialog ☒  
 Questel/Orbit \_\_\_\_\_  
 Dr.Link \_\_\_\_\_  
 Lexis/Nexis \_\_\_\_\_  
 Sequence Systems \_\_\_\_\_  
 WWW/Internet ☒  
 Other (specify) \_\_\_\_\_



# STIC Search Report

## EIC 2600

STIC Database Tracking Number: 115765

**TO: Walter Briney**  
**Location: PK2 8D11**  
**Art Unit: 2644**  
**Wednesday, March 03, 2004**

**Case Serial Number: 10/062686**

**From: Pamela Reynolds**  
**Location: EIC 2600**  
**PK2-3C03**  
**Phone: 306-0255**

**Pamela.Reynolds@uspto.gov**

### Search Notes

Dear Walter Briney,

Please find attached the search results for 10/062686. I used the search strategy I emailed to you to edit, which you did. I searched the standard Dialog files, and the internet.

If you would like a re-focus please let me know.

Thank you.

Pamela Reynolds

File 348:EUROPEAN PATENTS 1978-2004/Feb W04

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040226,UT=20040219

(c) 2004 WIPO/Univentio

Set	Items	Description
S1	6732	DSL OR DIGITAL()SUBSCRIBER()LINE? OR XDSL
S2	312	S1(3N)CARD??
S3	26135	POTS OR PLAIN()OLD()TELEPHONE? OR TELEPHONE(3N)LINE?
S4	389	S3(3N)CARD??
S5	257	(DETECT? OR DETERMIN? OR LOCAT? OR IDENTIF?) (3N)S1
S6	5494	(CONFIG ? OR RECONFIG? OR SETUP OR SETTING()UP OR IMPLEMEN- T?) (5N)PARAMETER??
S7	5047	MEASUR?(3N)IMPEDANCE?
S8	14	PROCESS?(3N)VOICE()BAND()SIGNAL?
S9	33	AU=(NORDIN, R? OR POSTHUMA, C? OR NORDIN R? OR POSTHUMA C?)
S10	36	SUBSCRIBER()LINE()CARD??
S11	24639	IC=H04M?
S12	0	S5(S)S6(S)S3
S13	0	S5(S)S6
S14	0	S10(S)S5
S15	97	S5 AND S11
S16	2	S15(S)S7
S17	0	S15(S)S8
S18	0	S15(S)S6
S19	60	DETECT?(3N)S1
S20	0	S19(7N)S4
S21	5	S19(10N)S3
S22	5	S21 NOT S16
S23	0	S19(10N)S7
S24	11	S1 AND S9
S25	7	S24(S)S3
S26	7	S25 NOT (S21 OR S16)
S27	7	IDPAT (sorted in duplicate/non-duplicate order)
S28	7	IDPAT (primary/non-duplicate records only)

16/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01391333

Digital subscriber line modem with automated line connection  
Digitales Teilnehmerleitungs-(DSL)-modem mit automatischer Leitungsverbindu  
ng

Modem numerique pour la ligne d'abonne avec connexion de ligne automatique  
PATENT ASSIGNEE:

Texas Instruments Incorporated, (279078), 7839 Churchill Way, Mail  
Station 3999, Dallas, Texas 75251, (US), (Applicant designated States:  
all)

INVENTOR:

Sherlock, Ian J., 9900 Adleta Blvd. No. 1019, Texas 75243, Dallas, (US)

LEGAL REPRESENTATIVE:

Holt, Michael (50426), Texas Instruments Ltd., 800 Pavilion Drive,  
Northampton Business Park, Northampton, Northamptonshire NN4 7YL, (GB)

PATENT (CC, No, Kind, Date): EP 1179954 A2 020213 (Basic)

EP 1179954 A3 020410

APPLICATION (CC, No, Date): EP 2001000329 010730;

PRIORITY (CC, No, Date): US 221952 P 000731

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04M-011/00; H04L-029/00

ABSTRACT WORD COUNT: 161

NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	200207	850
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SPEC A	(English)	200207	9217
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Total word count - document A	10067
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Total word count - document B	0
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Total word count - documents A + B	10067
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...SPECIFICATION step 100.

In step 100, the user is notified in response to the earlier-taken  
**impedance measurements**. Specifically, from the preceding one skilled  
in the art will appreciate that step 100 may be reached either following  
step 94 in response to an **impedance measurement** indicating connection  
of RJ11 receptacle 62 to a low pass filter, or following step 98 in  
response to an **impedance measurement** indicating connection of RJ11  
receptacle 62 to either a low pass filter or to a...

...connection using those pins in RJ11 receptacle 62 along which the low  
pass filter was **detected**. Indeed, as DSL modems become more readily  
implemented in mobile computers, this option may prove very useful where  
...steps 92 and 98 are enhanced to specifically detect a POTS service  
rather than only **measuring impedance**. For example, the connections  
provided via switch 64 may be evaluated to determine if they...

16/3,K/2 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00503236 \*\*Image available\*\*

APPARATUS AND METHOD FOR IMPROVED DSL COMMUNICATION

**APPAREIL ET PROCEDE POUR COMMUNICATION DSL AMELIOREE**

Patent Applicant/Assignee:

GLOBESPAN SEMICONDUCTOR INC,

Inventor(s):

AMRANY Daniel,

MURALT Arnold,

GEDAY Armando,

TOROK Gabe,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9934588 A1 19990708

Application: WO 98US27483 19981223 (PCT/WO US9827483)

Priority Application: US 9768676 19971224

Designated States: BR CA CN JP KP MX RU AT BE CH CY DE DK ES FI FR GB GR IE

IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 5568

Fulltext Availability:

Detailed Description

English Abstract

...modem start-up, the Off-Hook condition and other line problems are detected by direct **measurement** of the line **impedance** . Given a first **impedance measurement** in which the **impedance** is approximately equal to the impedance of the typical twisted-pair loop (124), the digital...

...that any Off-Hook equipment is protected with micro data filters. In response to this **detected** line condition, the **xDSL** communication is transmitted at the highest data rate supported by the transmission line.

Detailed Description

... pass filter that passes voice band but rejects an xDSL signal.

In response to this **detected** line condition, the **xDSL** communication is transmitted at the highest data rate supported by the transmission line. Given a second **impedance measurement** , in which the **measured impedance** is lower (e.g., 50%) than the line impedance of typical twisted pair loops, the...

...is used in order to avoid interfering with the Off-Hook equipment. Given a third **impedance measurement** , in which the **impedance** is significantly larger than the impedance of the typical twisted pair loops, the DSP of ...is received within a reasonable time period, the transmission will be terminated. Given a final **impedance measurement** in which the **impedance** is close to zero Ohms, the system of the present invention is able to detect...

?

22/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01099272

DSL MODEM

DSL-MODEM

MODEM DSL

PATENT ASSIGNEE:

JAPAN AVIATION ELECTRONICS INDUSTRY, LIMITED, (546334), 21-2, Dogenzaka  
1-chome, Shibuya-ku, Tokyo 150-0043, (JP), (Applicant designated  
States: all)

INVENTOR:

ANDOU, Norihiro-Japan Aviation Elect. Indust. Lim., 21-2, Dogenzaka  
1-chome, Shibuya-ku, Tokyo 150-0043, (JP)

ISHIGAMI, Motohiro-Japan Aviation Elect. Ind. Lim., 21-2, Dogenzaka  
1-chome, Shibuya-ku, Tokyo 150-0043, (JP)

LEGAL REPRESENTATIVE:

Hoffmann, Eckart, Dipl.-Ing. et al (5571), Patentanwalt, Bahnhofstrasse  
103, 82166 Grafelfing, (DE)

PATENT (CC, No, Kind, Date): EP 984612 A1 000308 (Basic)  
WO 9952268 991014

APPLICATION (CC, No, Date): EP 99912052 990331; WO 99JP1651 990331

PRIORITY (CC, No, Date): JP 9885363 980331

DESIGNATED STATES: CH; DE; FR; GB; IT; LI

INTERNATIONAL PATENT CLASS: H04M-019/08; H04M-011/00

ABSTRACT WORD COUNT: 128

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; Japanese  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200010	289
SPEC A	(English)	200010	2267
Total word count - document A			2556
Total word count - document B			0
Total word count - documents A + B			2556

...CLAIMS the DSL modulator/demodulator unit upon occurrence of a detection  
signal from the power outage **detector** .

6. A **DSL** modem according to Claim 1 in which the power source **POTS**  
signal is in the form of a mono-frequency or a multi-frequency  
signal.

7...

22/3,K/2 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00945654 \*\*Image available\*\*

**POTS EXTENDER FOR VOICE FALLBACK IN A SUBSCRIBER LINE FIELD OF THE  
INVENTION**

**PROLONGATEUR DE SYSTEME TELEPHONIQUE TRADITIONNEL POUR MODE DEGRADE DE LA  
VOIX DANS UNE LIGNE D'ABONNE**

Patent Applicant/Assignee:

NOKIA CORPORATION, Keilalahdentie 4, FIN-02150 Espoo, FI, FI (Residence),  
US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

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(Residence), CA (Nationality), (Designated only for: US)  
PEK Jiri, 10 Mowbray Street, Ottawa, Ontario K2K 1X7, CA, CA (Residence),  
CA (Nationality), (Designated only for: US)  
MATHEWS Cecil, 11 Carmichael Court, Kanata, Ontario K2K 1K1, CA, CA  
(Residence), CA (Nationality), (Designated only for: US)  
MILASIN Drasko, 63 Meadowbreeze Drive, Kanata, Ontario K2M 2L7, CA, CA  
(Residence), CA (Nationality), (Designated only for: US)

Legal Representative:

DEMELLO Wayne (agent), 600 Connection Drive, Irving, TX 75039, US,  
Patent and Priority Information (Country, Number, Date):

Patent: WO 200279789 A1 20021010 (WO 0279789)

Application: WO 2002US9816 20020328 (PCT/WO US0209816)

Priority Application: US 2001820029 20010328

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 2944

Fulltext Availability:

Claims

Claim

... current detector having a connection to thb at least one  
conductor pair, said loop current **detector** providing the master DSL  
modem control signal.

[00045] 3. The **POTS** extender of claim 1 wherein the SLIC further  
comprises:

a telephony current source;

switch hook...

22/3,K/3 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00890402 \*\*Image available\*\*

**A SYSTEM AND METHOD FOR PROVIDING A PACKET-BASED ELECTRONIC STETHOSCOPE**  
**DISPOSITIF ET PROCEDE POUR METTRE A DISPOSITION UN STETHOSCOPE ELECTRONIQUE**  
**FONCTIONNANT PAR COMMUTATION PAR PAQUETS**

Patent Applicant/Assignee:

CYBERCARE TECHNOLOGIES INC, Suite 400, 2500 Quantum Lake Blvd., Boynton  
Beach, FL 33426, US, US (Residence), US (Nationality)

Inventor(s):

BURROW Michael, 1120 Castle Point Lane, Grayson, GA 30017, US,

JOHNSON Trey, 1010 Scott Boulevard #B8, Decatur, GA 30033, US,

Legal Representative:

HORSTEMEYER Scott A (agent), Thomas, Kayden, Horstemeyer & Risley, LLP,  
Suite 1750, 100 Galleria Parkway, Atlanta, GA 30339-5948, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200224074 A1 20020328 (WO 0224074)

Application: WO 2000US34943 20001222 (PCT/WO US0034943)

Priority Application: US 2000664114 20000918

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG  
SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 5278

Fulltext Availability:

Detailed Description

Detailed Description

... system 1 00 is implemented on a wide area network the connection may  
be a **plain old telephone** service ( **POTS** ), or **digital subscriber**  
**line** ( **DSL** ) connection. The **detected** sounds are then transferred  
from the patient unit 53, via the patient server 5 1...

22/3,K/4 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00811807 \*\*Image available\*\*

**SYSTEM AND METHOD FOR AUTOMATICALLY DETECTING DSL SERVICE ON MULTIPLE  
TELEPHONE LINES**

**SYSTEME ET PROCEDE DE DETECTION AUTOMATIQUE D'UN SERVICE DE LIGNE NUMERIQUE  
(DSL) SUR DES LIGNES TELEPHONIQUES MULTIPLES**

Patent Applicant/Assignee:

2WIRE INC, 1704 Automation Parkway, San Jose, CA 95131, US, US

(Residence), US (Nationality)

Inventor(s):

SUN Ting, 2Wire, Inc., 1704 Automation Parkway, San Jose, CA 95131, US,

BERNSTEIN Jeffrey, 2Wire, Inc., 1704 Automation Parkway, San Jose, CA

95131, US,

Legal Representative:

WININGER Aaron (et al) (agent), Carr & Ferrell LLP, 2225 E. Bayshore

Road, Suite 200, Palo Alto, CA 94303, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200145431 A2-A3 20010621 (WO 0145431)

Application: WO 2000US41473 20001023, (PCT/WO US0041473)

Priority Application: US 99435456 19991105

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CZ DE

DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC

LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI

SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 5208

Fulltext Availability:

Detailed Description

Claims

Detailed Description



... transmission of  
activation tones is a conventional DSL protocol.

The response detector 304 operates to **detect** the presence of **DSL** service on the **telephone line** to which the switching device 202 (FIG. 2) is switched. As discussed in more detail... transformer 204 and the telephone lines 106 and 108 according to the detection (or non- **detection** ) of **DSL** service on the current **telephone line** . As discussed above, the relay controller 306 (FIG. 3) controls the relay 402 over the...4 wherein the relay interconnects the line 108 and the transformer 204.

Next, the current **telephone line** , or the **telephone line** to which the relay is presently connected, is probed to **detect** the presence of **DSL** service pursuant to block 506. That is, the **telephone line** to which the relay 402 is currently switched is probed for DSL service. In one...

...to another pursuant to block 512, execution returns to block 506 wherein the new current **telephone line** is probed as discussed above. This method then continues until **DSL** service is **detected** pursuant to block 508 and the method ends at block 514 with the switching device...been switched pursuant to block 712, execution returns to block 706 wherein the new current **telephone line** is probed as discussed above.

This method then continues until **DSL** service is **detected** pursuant to block 708.

If DSL service is detected pursuant to block 708, then execution...

#### Claim

... selectively  
switching connection between the each of the telephone lines and the data processor until **detecting** **DSL** service on either the first **telephone line** or the second **telephone line** .

2 The DSL modem according to claim 1, wherein the switching device further comprises at...

...2, wherein the switching device further comprises at least one mechanical relay for connecting the **telephone line** **detected** as having **DSL** service thereon to the data processor.

4 The DSL modem according to claim 1, wherein...

...first and second telephone lines.

17  
line to the second line; and  
probing the second **telephone line** to **detect** the availability of **DSL** service on the second **telephone line** if no **DSL** service is **detected** on the first **telephone line** .

7 The method according to claim 6, further comprising repeating the probing the first **telephone line** and the probing the second **telephone line** until **DSL** service is **detected** on

either the first telephone line or the second telephone line .

8 The method according to claim 6, wherein the probing the first telephone line and...DSL modem means coupled to first and second telephone lines;

means for probing the first telephone line to detect the availability of DSL service on the first telephone line ;

means for probing the second telephone line to detect the availability of DSL service on the second telephone line if no DSL service is detected on the first telephone line .

16 The device for identifying which of a plurality of telephone lines has DSL service...

22/3,K/5 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00783640 \*\*Image available\*\*

**ENHANCED LINE CARD AND PACKETIZING CPE FOR LIFELINE PACKET VOICE TELEPHONE  
CARTE DE LIGNE AMELIOREE ET DE MISE EN PAQUET DES EQUIPEMENTS D'ABONNE POUR  
TELEPHONE VOCAL PAR PAQUETS POUR APPELS DE SECOURS**

Patent Applicant/Assignee:

CATENA NETWORKS INC, Suite 600, 303 Twin Dolphin Drive, Redwood Shores,  
CA 94065, US, US (Residence), US (Nationality), (For all designated  
states except: US)

Patent Applicant/Inventor:

HJARTARSON Gudmundur Jim, 39 Marble Arch Crescent, Nepean, Ontario K2G  
5S7, CA, CA (Residence), CA (Nationality), (Designated only for: US)

BOOCOCK Jonathan, 742 Bayview Drive, R.R.#1, Woodlawn, Ontario K0A 3M0,  
CA, CA (Residence), CA (Nationality), (Designated only for: US)

DECZKY Andrew, 732 Highland Avenue, Ottawa, Ontario K0A 2K7, CA, CA  
(Residence), CA (Nationality), (Designated only for: US)

WEIRICH Andreas, 15 Basford Crescent, Stittsville, Ontario K2S 1G7, CA,  
CA (Residence), CA (Nationality), (Designated only for: US)

FEELEY Mark, 26 Marchbrook Circle, Kanata, Ontario K2K 2A1, CA, CA  
(Residence), CA (Nationality), (Designated only for: US)

Legal Representative:

ALLEN Kenneth R (et al) (agent), Townsend and Townsend and Crew LLP, Two  
Embarcadero Center, 8th floor, San Francisco, CA 94111, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200117219 A1 20010308 (WO 0117219)

Application: WO 2000US24073 20000831 (PCT/WO US0024073)

Priority Application: CA 2281356 19990901

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE  
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK  
SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4287

Fulltext Availability:

Detailed Description

#### Detailed Description

... connected to the telephone terminal 20, and the normally closed contacts are connected to the **POTS** Splitter 78. The relay is energized by a **DSL** Synch **Detect** signal 76 from the DSL modem within the voice packetizing CPE 40.

Under normal conditions...

?

28/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01430045

Line card and method for supporting POTS , asymmetric DSL and symmetric  
DSL services

Leitungskarte und Verfahren zur Unterstutzung von POTS , asymmetrischen  
und symmetrischen DSL Diensten

Carte de ligne et methode de support de POTS , des services DSL  
asymmetriques et symmetriques

PATENT ASSIGNEE:

LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill,  
New Jersey 07974-0636, (US), (Applicant designated States: all)

INVENTOR:

Dombkowski, Kevin Eugene, 108 Fox Chase Drive South, Oswego, Illinois  
60543, (US)

Posthuma, Carl Robert, 1309 Lowden Avenue, Wheaton, Illinois 60187, (US)

LEGAL REPRESENTATIVE:

Buckley, Christopher Simon Thirsk et al (28912), Lucent Technologies (UK)  
Ltd, 5 Mornington Road, Woodford Green, Essex IG8 0TU, (GB)

PATENT (CC, No, Kind, Date): EP 1207673 A1 020522 (Basic)

APPLICATION (CC, No, Date): EP 2001309266 011031;

PRIORITY (CC, No, Date): US 713745 001115

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04M-003/00; H04M-011/06

ABSTRACT WORD COUNT: 114

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200221	445
SPEC A	(English)	200221	3969
Total word count - document A			4414
Total word count - document B			0
Total word count - documents A + B			4414

Line card and method for supporting POTS , asymmetric DSL and symmetric  
DSL services

Leitungskarte und Verfahren zur Unterstutzung von POTS , asymmetrischen  
und symmetrischen DSL Diensten

Carte de ligne et methode de support de POTS , des services DSL  
asymmetriques et symmetriques

...ABSTRACT method is provided which supports symmetric and asymmetric  
telecommunication services, such as symmetric and asymmetric DSL  
services. The line card may support concomitantly POTS and asymmetric  
DSL services or support DSL services. A xDSL interface provides  
processing for DSL signals and a POTS interface provides processing  
for POTS signals. The line card is capable of switching operating modes  
or which services-it is...

...SPECIFICATION data and voice communications and, in particular, to a  
line card and method which supports POTS and asymmetric DSL and which  
supports DSL .

There is an ever pressing need for telecommunication service providers  
to provide cheaper, faster and...

...equal, the service is termed "asymmetric".

Line cards, for example, supporting symmetric applications for such **xDSL**, technologies as HDSL2 and SDSL have not supported concurrent operation with **POTS**. Line cards are known which provide concurrent asymmetric **xDSL** services, such as ADSL or ADSL Lite, and **POTS**. Unfortunately, those line cards do not support symmetric **xDSL** services. Hence, different circuit packs, or line cards, are needed in the telecommunications systems for the various symmetric and asymmetric services and **POTS**.

Accordingly, there is thus a need in the art for a line card and method for supporting concomitant operation of **POTS** and asymmetric **digital subscriber line** services and for supporting symmetric and asymmetric **digital subscriber line** services.

#### SUMMARY OF THE INVENTION

This need is met by a line card and method in accordance with the present invention which substantially concomitantly supports **POTS** and asymmetric **digital subscriber line** services and is also capable of supporting symmetric and asymmetric **digital subscriber line** services. The line card includes a controller which controls the card's operation to support...

...comprises a multiple mode circuit capable of supporting symmetric and asymmetric telecommunication services, such as **xDSL** services. The line card may include a **POTS** interface for supporting **POTS** service. Preferably, the line card substantially concomitantly supports **POTS** service and asymmetric **xDSL** services. The line card may comprise a **xDSL** interface for supporting symmetric and asymmetric **xDSL** telecommunication services. Preferably, the **xDSL** interface is capable of supporting any one of ADSL, ADSL lite, VDSL, HDSL, SDSL, HDSL2...

...card is provided which includes a multiple mode circuit capable of supporting **POTS** service, symmetric **digital subscriber line** services and asymmetric **digital subscriber line** services. Preferably, the multiple mode circuit is capable of supporting the **POTS** service substantially concomitant with at least one of the **digital subscriber line** services.

In accordance with yet another aspect of the present invention, a method for supporting **POTS** and asymmetric **digital subscriber line** services and for supporting symmetric and asymmetric **digital subscriber line** services on a line card is provided. The method comprising the steps of: selecting whether to support the **POTS** and asymmetric **digital subscriber line** services or whether to support the **digital subscriber line** services; receiving a communication signal at the line card; if **POTS** and asymmetric **digital subscriber line** services are being supported, separate **POTS** signals and asymmetric **digital subscriber line** signals in the communication signal; process the **POTS** and asymmetric **digital subscriber line** signals; if symmetric and asymmetric **digital subscriber line** services are being supported, separate **digital subscriber line** signals in the communication signal; and process the **digital subscriber line** signals.

These and other features and advantages of the present invention will become apparent from...

01411994

**Metallic testing of a subscriber loop that provides both voice and digital subscriber line services**

**Metallische Prufung einer Teilnehmerschleife mit Sprach- und digitalen Teilnehmerleitungsdiensten**

**Test metallique d'une boucle d'abonne fournissant des services vocaux et des services de ligne d'abonne numerique**

PATENT ASSIGNEE:

LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill,  
New Jersey 07974-0636, (US), (Proprietor designated states: all)

INVENTOR:

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LEGAL REPRESENTATIVE:

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Inc., 5 Mornington Road, Woodford Green, Essex IG8 0TU, (GB)

PATENT (CC, No, Kind, Date): EP 1193958 A1 020403 (Basic)

EP 1193958 B1 040107

APPLICATION (CC, No, Date): EP 2001303329 010409;

PRIORITY (CC, No, Date): US 675884 000929

DESIGNATED STATES: DE; FR; GB; IT; NL; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04M-003/30

ABSTRACT WORD COUNT: 170

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200214	907
CLAIMS B	(English)	200402	1228
CLAIMS B	(German)	200402	1022
CLAIMS B	(French)	200402	1412
SPEC A	(English)	200214	2778
SPEC B	(English)	200402	3079
Total word count - document A			3686
Total word count - document B			6741
Total word count - documents A + B			10427

...SPECIFICATION high speed data signals into frequency ranges well above the frequency range that carries both **plain old telephone** service (" **POTS** ") or integrated services digital network (ISDN) service. Thus, one subscriber loop comprising a tip-ring...

...a voice switch 200 and a digital subscriber line access multiplexer (DSLAM) also called a **DSL** switch 202. A **DSL** -ready **POTS** line card 204 is connected to the switching core of voice switch 200 through a pulse code modulated (PCM) connection 206. **DSL** -ready **POTS** line card 204 is also connected to the voice switch 200 metallic test unit 208 via metallic test bus 210. For purposes of this description, **plain old telephone** service ( **POTS** ) also includes integrated services digital network (ISDN) service. Both **POTS** and ISDN use the same low frequency band and perform metallic testing in a similar, and in some cases, identical manner. A **DSL** -ready line card as described herein is more fully described in U.S. Patent Application...

...the needs of different line card configurations without departing from the scope of the claims.

**DSL** -ready line card 204 comprises four main components. According to this exemplary embodiment, **DSL** -ready line card 204 comprises a compensating digital signal processor 212, a CODEC or digital...

...low-pass filter is included 218. For a more complete description of the functionality of **POTS** line card 204, see, U.S. Patent Application 09/650,050, incorporated by reference above...

...SPECIFICATION high speed data signals into frequency ranges well above the frequency range that carries both **plain old telephone** service (" **POTS** ") or integrated services digital network (ISDN) service. Thus, one subscriber loop comprising a tip-ring...

...edition discusses how telephone service companies are providing plain old telephone services (POTS) and also **digital subscriber line** ( **DSL** ) service. This article shows how a line is set up and how in various ways...

...filters on each branch of the line inside the subscriber's home. A variation of **DSL** called ADSL-lite is also discussed along with the fact that ADSL lite is splitterless...

...a voice switch 200 and a digital subscriber line access multiplexer (DSLAM) also called a **DSL** switch 202. A **DSL** -ready **POTS** line card 204 is connected to the switching core of voice switch 200 through a pulse code modulated (PCM) connection 206. **DSL** -ready **POTS** line card 204 is also connected to the voice switch 200 metallic test unit 208 via metallic test bus 210. For purposes of this description, **plain old telephone** service ( **POTS** ) also includes integrated services digital network (ISDN) service. Both **POTS** and ISDN use the same low frequency band and perform metallic testing in a similar, and in some cases, identical manner. A **DSL** -ready line card as described herein is more fully described in U.S. Patent Application...

...the needs of different line card configurations without departing from the scope of the claims.

**DSL** -ready line card 204 comprises four main components. According to this exemplary embodiment, **DSL** -ready line card 204 comprises a compensating digital signal processor 212, a CODEC or digital...

...low-pass filter is included 218. For a more complete description of the functionality of **POTS** line card 204, see, U.S. Patent Application 09/650,050 .

Additionally, there are two...

...CLAIMS A system in accordance with claim 1 wherein said voice frequency line card comprises a **DSL** ready **POTS** line card.

3. A system in accordance with claim 1 wherein said voice frequency line ...

...CLAIMS system in accordance with claim 1 wherein said voice frequency line card (204) includes a **DSL** ready **POTS** line card.

3. A system in accordance with claim 1 wherein said voice frequency line ...

...CLAIMS Metallweg zur Teilnehmeranschlussleitung bereitzustellen.

2. System nach Anspruch 1, wobei die Niederfrequenz-Leitungsanschlusskarte (204) eine **DSL** -bereite **POTS** -Leitungsanschlusskarte enthält.

3. System nach Anspruch 1, wobei die Niederfrequenz-Leitungsanschlusskarte (204) eine **DSL**-bereite...

...CLAIMS dans lequel ladite carte de ligne de fréquence vocale (204) comporte une carte de ligne **POTS** a fonction **DSL** .

3. Systeme selon la revendication 1, dans lequel ladite carte de ligne de fréquence vocale...

28/3,K/3 (Item 3 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01406089

System and method for providing lifeline power service to digital  
subscriber line customers

Vorrichtung und Verfahren zur bereitstellung von Leistungsnotdiensten fur  
DSL-Teilnehmern

Systeme et procede de service de telephonie d'emergence pour abonnes d'une  
ligne numerique

PATENT ASSIGNEE:

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INVENTOR:

Posthuma, Carl Robert, 1309 Lowden Avenue, Wheaton, Illinois 60187, (US)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1189422 A2 020320 (Basic)  
EP 1189422 A3 021002

APPLICATION (CC, No, Date): EP 2001302269 010312;

PRIORITY (CC, No, Date): US 650050 000829

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04M-019/00

ABSTRACT WORD COUNT: 123

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200212	662
SPEC A	(English)	200212	2538
Total word count - document A			3200
Total word count - document B			0
Total word count - documents A + B			3200

...SPECIFICATION the customer premise to integrate voice service over the  
data service.

One issue that each **DSL** service provider must face is how the  
customer premise integrated access device is to be powered. In **POTS**  
telephony, 48 volts DC is supplied from the central office for most  
functions, and approximately...

...the central office for ringing. The integrated access device must supply  
these voltages to all **POTS** telephones to which it is connected; as well  
as supply power to the other components (interfaces, routers, etc., as  
will be discussed further, below, in connection with FIG. 2). Some **DSL**  
standards specify that power is delivered from the central office in a  
similar manner as **POTS** service. However, the integrated access device  
requires power at all times, and requires more power than a **POTS**  
telephone. Thus, central power delivery is a very expensive proposition  
for the operating company. Hence...in an operating switching office  
depending on the particular implementation.

In this exemplary embodiment, each **DSL** terminal unit 28 interface 32.  
is connected by a tip-ring pair 48 to an...



...62, such as a personal computer, workstation or other data devices, and a plurality of POTS telephones 64, 65, 66, 67 and 68 and ISDN telephone 69. In order to provide...

28/3,K/4 (Item 4 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01383346

**A DSL-compatible line card for analog telephone lines**  
**Eine DSL-kompatible Teilnehmeranschlusskarte fur analoge Teilnehmeranschlussleitungen**  
**Une carte de ligne pour une ligne telefonique analogique compatible avec une ligne DSL**

PATENT ASSIGNEE:

LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill,  
New Jersey 07974-0636, (US), (Applicant designated States: all)

INVENTOR:

Nordin, Roland Alex, 1178 Sequoia Road, Naperville, Illinois 60540, (US)  
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Sand, Paul R., 11 Pheasant Court, Woodridge, Illinois 60517, (US)

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PATENT (CC, No, Kind, Date): EP 1175077 A2 020123 (Basic)  
EP 1175077 A3 020327

APPLICATION (CC, No, Date): EP 2001300758 010129;

PRIORITY (CC, No, Date): US 617446 000717

DESIGNATED STATES: DE; FR; GB; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04M-011/06; H04M-003/00

ABSTRACT WORD COUNT: 115

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200204	626
SPEC A	(English)	200204	1839
Total word count - document A			2465
Total word count - document B			0
Total word count - documents A + B			2465

**A DSL-compatible line card for analog telephone lines**

...ABSTRACT A2

An improved plain old telephone service ( POTS ) line card (238) may be directly connected to a customer line that is also connected to a digital subscriber line access module. A second order filter (246) is added to the front end of the POTS line card in order to attenuate XDSL signals and to lower its amplitude. A new digital signal processor (240) (DSP) includes further...

...balance network compensation (252) to provide the proper balanced network as is known in current POTS cards but not provided in current XDSL services. This card may also be used alone, without a XDSL equipped line.

...SPECIFICATION new technology that can be implemented over the embedded copper networks is digital subscriber line ( DSL ). DSL comes in many varieties such as asymmetrical DSL (ADSL) (upstream and downstream have different bandwidth requirements) and other varieties of service (herein XDSL ). Many XDSL technologies provide high speed data service over current tip-ring pairs by encoding the signals in frequency ranges above the POTS frequency. Thus, one tip-ring pair can provide both POTS service and high-speed data service.

The local service providers (who are no longer part...

...universal Bell System), however, have to make major changes in their central office to provide XDSL service. FIG. 1 is a block diagram of a current central office providing XDSL service. Central office 10 includes a local telephone switching system (switch) 12 that provides the usual POTS telephone services and features. In order to provide XDSL , central office 10 also includes digital subscriber line access multiplexer (DSLAM) 14 which sends and receives digital signals to and from the subscribers...

28/3,K/5 (Item 5 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01341169

**A system and method for selectively providing data communications in an XDSL communication system**

**System und Verfahren zur selektiven Datenübertragung in einem XDSL-Übertragungssystem**

**Système et procédé de communication selective de donnees dans un système de communication XDSL**

PATENT ASSIGNEE:

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INVENTOR:

Posthuma, Carl Robert, 1309 Lowden Avenue, Wheaton, IL 60187, (US)

LEGAL REPRESENTATIVE:

Watts, Christopher Malcolm Kelway, Dr. et al (37391), Lucent Technologies  
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PATENT (CC, No, Kind, Date): EP 1146723 A2 011017 (Basic)

APPLICATION (CC, No, Date): EP 2001301717 010226;

PRIORITY (CC, No, Date): US 524476 000313

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04M-011/06

ABSTRACT WORD COUNT: 158

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200142	1332
SPEC A	(English)	200142	3998
Total word count - document A			5330
Total word count - document B			0
Total word count - documents A + B			5330

...SPECIFICATION support line termination equipment;

FIG. 2 is a graphical representation of a system for providing POTS and XDSL services in accordance with an aspect of the present invention; and

FIG. 3 is a block diagram of another aspect of the present invention for providing POTS and XDSL services.

#### DETAILED DESCRIPTION

One or more specific versions of the present invention will be described...

...a single subscriber line supports at least two different classes of subscriber service, such as POTS and XDSL or other high speed data services. The "X" in XDSL represents one of a family of digital subscriber line services such as ADSL ( asymmetric ), ADSL Lite, RDSL (rate-adaptive) and VDSL (very high speed...

...a signaling method to provide higher data transmission speeds than can be supported by conventional POTS line transmitting equipment. "X" could also be used in energy mode for SDSL, HDSL, HDSL II and SHDSL where POTS circuitry would not be present.

Now, referring to FIG. 2, consumer premises equipment (CPE) 135...

...such as a telephone) which can be connected to the subscriber line 134 via a POTS splitter 138 to receive POTS signals. The subscriber may elect to couple a high speed data interface (an interface circuit), such as a XDSL interface 140, via a POTS splitter 138 to the subscriber line 134 to support high speed data communications. A high speed data device, shown as a personal computer 142, is illustratively shown connected to the XDSL interface 140. For purposes of this disclosure, a data device may comprise the personal computer 142 and the XDSL interface 140. It will be appreciated, however, by those skilled in the art that high...

...signal information.

The BAIU 144 comprises a plurality of components such as a plurality of:

28/3,K/6 (Item 6 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01160843

**A system and method for allocating overhead voltage in the transmission of POTS and xDSL signals**

**System und Verfahren zur Zuweisung von Overhead-Spannung in POTS und xDSL Signalenubertragung**

**Systeme et Methode pour l'allocation de tension de overhead dans la transmission des signaux de type POTS et xDSL**

PATENT ASSIGNEE:

LUCENT TECHNOLOGIES INC., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (Proprietor designated states: all).

INVENTOR:

Posthuma, Carl Robert, 1309 Lowden Avenue, Wheaton, illinois 60187, (US)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1011250 A1 000621 (Basic)  
EP 1011250 B1 030723

APPLICATION (CC, No, Date): EP 99310109 991215;  
PRIORITY (CC, No, Date): US 112938 P 981218; US 328102 990608  
DESIGNATED STATES: DE; FR; GB  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS: H04M-003/00; H04Q-011/04; H04M-011/06  
ABSTRACT WORD COUNT: 69  
NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200025	688
CLAIMS B	(English)	200330	456
CLAIMS B	(German)	200330	393
CLAIMS B	(French)	200330	543
SPEC A	(English)	200025	3479
SPEC B	(English)	200330	3583
Total word count - document A			4168
Total word count - document B			4975
Total word count - documents A + B			9143

**A system and method for allocating overhead voltage in the transmission of POTS and xDSL signals**  
**System und Verfahren zur Zuweisung von Overhead-Spannung in POTS und xDSL Signalenubertragung**  
... **Methode pour l'allocation de tension de overhead dans la transmission des signaux de type POTS et xDSL**

...SPECIFICATION This invention relates to telecommunication systems that support both plain old telephone services (POTS) and **digital subscriber line** services ( **xDSL** ). The invention is especially suited but not limited to allocating overhead voltage for both the **POTS** and **xDSL** signals.

In the United States, telephone networks use batteries of approximately 48 to 52 Volts...

...customer premises equipment (CPE), such as a standard telephone, at a customer premises. In a **POTS** mode of operation, a normal office battery voltage is acceptable because a standard CPE device...

...between the central office and the CPE) typically changes based on the loop configurations. When **POTS** and **xDSL** are transmitted simultaneously, the combination of **POTS** and **xDSL** overhead voltages along with the needed DC voltage are not fully supported by the output...

...battery on some loop configurations. This results in lowering the maximum data rates of the **xDSL** signal and/or the voice quality of the **POTS** signal.

Attempts at solving this problem have included using higher voltage batteries, separate drive circuits for **POTS** and **xDSL** , and battery boost circuits. However, each of these solutions have included expensive new circuitry and...

...need for a system and method for allocating overhead voltage to allow the transmission of **POTS** and **xDSL** signals either separately or simultaneously. There is a need to permit the use of normal...

...of a system and method that allows allocation of overhead voltage in the transmission of **POTS** and **xDSL** signals. In accordance with the

File 2:INSPEC 1969-2004/Feb W4  
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File 6:NTIS 1964-2004/Feb W5  
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File 8:Ei Compendex(R) 1970-2004/Feb W4  
(c) 2004 Elsevier Eng. Info. Inc.  
File 34:SciSearch(R) Cited Ref Sci 1990-2004/Feb W4  
(c) 2004 Inst for Sci Info  
File 35:Dissertation Abs Online 1861-2004/Feb  
(c) 2004 ProQuest Info&Learning  
File 65:Inside Conferences 1993-2004/Feb W5  
(c) 2004 BLDSC all rts. reserv.  
File 94:JICST-EPlus 1985-2004/Feb W4  
(c)2004 Japan Science and Tech Corp(JST)  
File 95:TEME-Technology & Management 1989-2004/Feb W3  
(c) 2004 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Jan  
(c) 2004 The HW Wilson Co.  
File 144:Pascal 1973-2004/Feb W4  
(c) 2004 INIST/CNRS  
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep  
(c) 2003 EBSCO Pub.  
File 239:Mathsci 1940-2004/Apr  
(c) 2004 American Mathematical Society  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 603:Newspaper Abstracts 1984-1988  
(c)2001 ProQuest Info&Learning  
File 483:Newspaper Abs Daily 1986-2004/Mar 02  
(c) 2004 ProQuest Info&Learning

Set	Items	Description
S1	10679	DSL OR DIGITAL()SUBSCRIBER()LINE?
S2	190	S1 AND CARD??
S3	31911	POTS OR PLAIN()OLD()TELEPHONE? OR TELEPHONE(3N)LINE?
S4	630	S3 AND CARD??
S5	1061	(DETECT? OR DETERMIN? OR LOCAT? OR IDENTIF?) AND S1
S6	119025	(CONFIG ? OR RECONFIG? OR SETUP OR SETTING()UP OR IMPLEMEN- T?) AND PARAMETER??
S7	100619	MEASUR? AND IMPEDANCE?
S8	26	PROCESS? AND VOICE()BAND()SIGNAL?
S9	94	AU=(NORDIN, R? OR POSTHUMA, C? OR NORDIN R? OR POSTHUMA C?)
S10	19	S5 AND S6
S11	0	S10 AND S7
S12	1	S10 AND S3
S13	2	S5 AND S7
S14	2	S13 NOT (S12 OR S10)
S15	2	RD S14 (unique items)
S16	24	SUBSCRIBER()LINE()CARD?
S17	0	S16 AND S5
S18	77	S1 AND S3 AND (DETECT? OR DETERMIN? OR LOCAT? OR IDENTIF?)
S19	1	S18 AND S6
S20	0	S19 NOT (S13 OR S12 OR S10)
S21	0	S18 AND S7
S22	4	S18 AND PY=2003:2004
S23	73	S18 NOT S22
S24	56	RD S23 (unique items)
S25	29	DETECT?(3N)S1
S26	4	S25 AND S3

S27

0 S26 NOT (S18 OR S13 OR S12 OR S10)

12/3,K/1 (Item 1 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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06694015 E.I. No: EIP04047824702

**Title: Discrete-multitone-based ADSL and VDSL systems performance analysis in an impulse noise environment**

Author: Moulin, F.; Ouzzif, M.; Zeddami, A.; Gauthier, F.

Corporate Source: France Telecom R and D, Lannion 22307, France

Source: IEE Proceedings: Science, Measurement and Technology v 150 n 6  
November 2003. p 273-278

Publication Year: 2003

CODEN: ISMTEV ISSN: 1350-2344

Language: English

...Abstract: of impairment of ADSL and VDSL services. The authors present a simple and easy to **implement** technique to evaluate the effect of the impulse noise on discrete-multitone-based ADSL and...

...comparison between simulated results and measurements taken on real system. The technique is used to **determine** the optimum **parameters** of ADSL and VDSL systems that ensure a better protection against impulse noise. 10 Refs.

Descriptors: Impulse noise; Electromagnetic waves; **Telephone lines**; Couplings; Electric switches; Motors; Modems; Robustness (control systems); Signal interference; Quadrature amplitude modulation; Error correction...

Identifiers: Digital subscriber loop ( **DSL** ); Radio-frequency interference (RFI); Transmission delays

?

15/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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7403498 INSPEC Abstract Number: B2002-11-7210N-006

**Title: Calibration of a metallic access network analyzer**

Author(s): Boets, P.; Van Biesen, L.; Temmerman, S.

Author Affiliation: Dept. Elec, Free Univ. Brussel, Brussels, Belgium

Conference Title: IMTC/2002. Proceedings of the 19th IEEE Instrumentation and Measurement Technology Conference (IEEE Cat. No.00CH37276) Part vol.2 p.1151-5 vol.2

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2002 Country of Publication: USA 2 vol. xlviii+1768 PP.

ISBN: 0 7803 7218 2 Material Identity Number: XX-2002-01740

U.S. Copyright Clearance Center Code: 0-7803-7218-2/02/\$10.00

Conference Title: IMTC/2002. Proceedings of the 19th IEEE Instrumentation and Measurement Technology Conference

Conference Sponsor: IEEE Instrum. Measurement Soc

Conference Date: 21-23 May 2002 Conference Location: Anchorage, AK, USA

Language: English

Subfile: B

Copyright 2002, IEE

...Abstract: the input reflection coefficient of a metallic access network cable is obtained using single port **measurements** from an access network analyzer. The analyzer is a versatile instrument and uses optimal cable matching and internal balancing to achieve maximum **measurement** resolution. The analyzer uses test-leads connected to a fixed bridge structure, but with an adaptable balance and match **impedance**, and two variable synchronous acquisition channels so that the calibration can be split up into the non-parametric **determination** of the fixed part and a parametric **determination** of the variable part. The outcome of the non-parametric calibration is nine frequency dependent...

... of rational functions in the S-domain. The parametric calibration depends on frequency domain system **identification** where the order of the numerator and denominator polynomials of the rational functions are not...

...Descriptors: **digital subscriber lines** ; ...

... **impedance** matching

...Identifiers: single port **measurement** systematic errors...

... **measurement** resolution...

... **impedance** matching bridge...

...fixed part nonparametric **determination** ; ...

...variable part parametric **determination** ; ...

...frequency domain system **identification** ;

15/3,K/2 (Item 1 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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06089484 E.I. No: EIP02287013462

**Title: Power line communication front-ends based on ADSL technology**



Author: Van Den Keybus, Jeroen; Bolsens, Bruno; Driesen, Johan; Belmans, Ronnie

Corporate Source: Katholieke Universiteit Leuven Dep. EE (ESAT) Div. ELECTA, B-3001 Heverlee, Belgium

Conference Title: 2002 IEEE International Symposium on Circuits and Systems

Conference Location: Phoenix, AZ, United States Conference Date: 20020526-20020529

E.I. Conference No.: 59251

Source: Proceedings - IEEE International Symposium on Circuits and Systems v 5 2002. p V/425-V/428 (IEEE cat n 02ch37353)

Publication Year: 2002

CODEN: PICSDI ISSN: 0271-4310

Language: English

Abstract: The practical implementation of communication over power lines (PLC) using an Asymmetric **Digital Subscriber Line** (ADSL) front-end is discussed. Both PLC and ADSL modems are based on the same...  
...line interface. This paper presents the front-end topology and discusses the signal-to noise **measurements** that were performed to **determine** , using Shannon's theorem, the theoretical data throughput. 9  
Refs.

Descriptors: Telecommunication lines; Signal to noise ratio; Electric **impedance** ; Attenuation; Electric potential; Electric rectifiers; Electric network topology; Bandwidth; Communication channels (information theory)

Identifiers: Power line communication; Asymmetric **digital** subscriber **line** ; Discrete multitone

?

24/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7617769 INSPEC Abstract Number: B2003-06-6220B-022

**Title: Reflectometer methods for assessing DSL local telephone loop connections**

Author(s): Kessler, T.; Walter, H.

Author Affiliation: T-Syst., Darmstadt, Germany

Journal: ITG-Fachbericht Conference Title: ITG-Fachber. (Germany)

no.174 p.65-72

Publisher: VDE-Verlag,

Publication Date: 2002 Country of Publication: Germany

CODEN: ITGFY ISSN: 0932-6022

SICI: 0932-6022(2002)174L:65:RMAL;1-M

Material Identity Number: G434-2002-006

Conference Title: Kommunikationskabelnetze (Cable communications network)

Conference Date: 10-11 Dec. 2002 Conference Location: Koln, Germany

Language: German

Subfile: B

Copyright 2003, IEE

**Title: Reflectometer methods for assessing DSL local telephone loop connections**

Abstract: Discusses procedures for checking subscriber **telephone lines** for suitability for ADSL digital service. The authors note the importance of reflectometric methods where...

...subscriber loop characteristics, such as line length and impedance. They also list parameters to be **determined**: line shorts and breaks; asymmetry; loop resistance; return loss; interference, position of branches, crosstalk point...

Descriptors: **digital subscriber lines** ;

Identifiers: **DSL local telephone loop connections**...

...subscriber **telephone lines** ;

24/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7543857 INSPEC Abstract Number: B2003-04-6210D-007

**Title: Have buttinsky, will test [telephone-system troubleshooting]**

Author(s): Lecklider, T.

Journal: EE Evaluation Engineering vol.41, no.11 p.26-32

Publisher: Nelson Publishing,

Publication Date: Nov. 2002 Country of Publication: USA

CODEN: EEVEFQ ISSN: 0149-0370

SICI: 0149-0370(200211)41:11L:26:HBWT;1-Z

Material Identity Number: F359-2002-011

Language: English

Subfile: B

Copyright 2003, IEE

...Abstract: phone lines are not carrying analog conversations these days. Some data-safe butt sets automatically **determine** that data is flowing on the line. The test-set talk function may be inhibited...

... office based loop testing which is being extended to include xDSL

parameters as well as POTS .  
...Descriptors: digital subscriber lines ;  
...Identifiers: POTS ; ...  
...asymmetrical DSL ;

24/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7529648 INSPEC Abstract Number: B2003-03-6210L-131, C2003-03-7210N-054

**Title: For DSL , closer is faster**

Author(s): Flynn, P.; Curran, K.; Lunney, T.

Author Affiliation: Sch. of Bus. & Humanities, Inst. of Technol., Ireland

Conference Title: Information Technology and Telecommunications in the  
Institute of Technology and Industry Sectors (IT&T) Annual Conference.  
Proceedings p.122-30

Publisher: Athlone Inst. Technol, Athlone, Ireland

Publication Date: 2001 Country of Publication: Ireland xiii+158 pp.

Material Identity Number: XX-2002-03933

Conference Title: Information Technology and Telecommunications in the  
Institute of Technology and Industry Sectors (IT&T) Annual Conference.  
'E-generation: technology for business momentum' Proceedings

Conference Date: 4-5 Sept. 2001 Conference Location: Athlone, Ireland

Language: English

Subfile: B C

Copyright 2003, IEE

**Title: For DSL , closer is faster**

Abstract: A Digital Subscriber Line ( DSL ) delivers high-speed Internet access using existing copper telephone lines already installed in millions of homes and businesses worldwide. DSL promises to provide broadband speeds of up to 8 Mbps, which is up to 50 times faster than conventional dial-up connections. In reality, however, the true speeds attainable by DSL are not quite as staggering. Tests carried out in the Republic of Ireland have shown that there are a number of factors that play a role in determining the speed of access available under DSL technology to the subscriber. Using comprehensive test results and expert knowledge of the local loop make-up, it is shown that the high speed access with DSL as claimed by many service providers is, in fact, not a reality. However, it can...

...Descriptors: digital subscriber lines ;

...Identifiers: telephone lines ; ...

... DSL ;

24/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7439320 INSPEC Abstract Number: B2002-12-6220B-012

**Title: Non-linear modeling of a broadband SLIC for ADSL-Lite-over- POTS using harmonic analysis**

Author(s): Koeppl, H.; Paoli, G.

Author Affiliation: Inst. of Comm. & Wave Propagation, Graz Univ. of Technol., Austria

Conference Title: 2002 IEEE International Symposium on Circuits and Systems. Proceedings (Cat. No.02CH37353) Part vol.2 p.II-133-6 vol.2

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2002 Country of Publication: USA 5  
vol.(cxxi+924+886+898+889+871) pp.

ISBN: 0 7803 7448 7 Material Identity Number: XX-2002-01779

U.S. Copyright Clearance Center Code: 0-7803-7448-7/02/\$17.00

Conference Title: 22002 IEEE International Symposium on Circuits and Systems

Conference Sponsor: IEEE; IEEE Circuits & Syst. Soc

Conference Date: 26-29 May 2002 Conference Location:  
Phoenix-Scottsdale, AZ, USA

Language: English

Subfile: B

Copyright 2002, IEE

**Title: Non-linear modeling of a broadband SLIC for ADSL-Lite-over- POTS using harmonic analysis**

Abstract: A new frequency domain based **identification** algorithm for the discrete-time Wiener model is presented. The Wiener model belongs to the...

... to the general Volterra model, it is shown that the Wiener model can be uniquely **identified** , using harmonic analysis only. Therefore the given **identification** scheme is very suitable for real world applications, where only measurements from the spectrum analyzer...

... scale analog circuits. A broadband SLIC (subscriber line interface circuit) for an ADSL-Lite-over- **POTS** (asymmetric **digital** subscriber line , plain old telephone service) central office application is considered. Data acquisition is done by an analog network simulator...

...Descriptors: **digital subscriber lines** ;

...Identifiers: ADSL-Lite-over- **POTS** ; ...

...frequency domain based **identification** algorithm

24/3,K/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7303048 INSPEC Abstract Number: B2002-08-6220B-004

**Title: Loop makeup identification via single ended testing: beyond mere loop qualification**

Author(s): Galli, S.; Waring, D.L.

Author Affiliation: Telcordia Technol., Inc, Morristown, NJ, USA

Journal: IEEE Journal on Selected Areas in Communications vol.20, no.5  
p.923-35

Publisher: IEEE,

Publication Date: June 2002 Country of Publication: USA

CODEN: ISACEM ISSN: 0733-8716

SICI: 0733-8716(200206)20:5L.923:LMIS;1-7

Material Identity Number: D958-2002-006

U.S. Copyright Clearance Center Code: 0733-8716/02/\$17.00

Language: English

Subfile: B

Copyright 2002, IEE

**Title: Loop makeup identification via single ended testing: beyond mere loop qualification**

Abstract: **Digital subscriber lines** (DSLs) offer carriers the possibility of exploiting the existing loop plant to deliver high-speed data and voice services. However, before deploying **DSL** , local loops must be tested in order to see whether they can support service, and...

... what level. In fact, there are many impairments that could disqualify a loop for supporting DSL services: load coils, excessive loop length, bridged taps, and wideband noise. Single-ended automatic qualification is essential for achieving low-cost deployment of DSL, since it allows loops to be qualified in bulk and does not involve any human intervention at the customer's location. An even more ambitious challenge is to fully characterize a loop, i.e., to identify its loop makeup. If it is feasible to perform loop makeup identification via single-ended measurements with sufficient accuracy, then operators will benefit substantially because, besides qualifying a loop for DSL service, this capability will allow the updating of telephone company loop-records. These records can...

... engineering, provisioning and maintenance operations. Despite its potential importance, the possibility of achieving loop makeup identification via single-ended measurements is not widely addressed in the current literature. In the present contribution the feasibility of loop makeup identification via single-ended measurements is presented.

...Descriptors: digital subscriber lines ;  
Identifiers: loop makeup identification ; ...  
... digital subscriber lines ; ...

... telephone line discontinuities...

... DSL ; ...

... DSL service

24/3,K/6 (Item 6 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7132506 INSPEC Abstract Number: B2002-02-6220B-004

Title: Addicted to speed

Author(s): Israelsohn, J.

Journal: EDN (US Edition) vol.46, no.20 p.54-64

Publisher: Cahnners Publishing,

Publication Date: 13 Sept. 2001 Country of Publication: USA

CODEN: EDNEFD ISSN: 0012-7515

SICI: 0012-7515(20010913)46:20L.54:AS;1-3

Material Identity Number: G340-2001-020

Language: English

Subfile: B

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...Abstract: telephone companies adopt and how eager they are to push DSLAMs into the neighborhoods will determine when subscribers have access to what services. But with aggressive competition from cable companies and ...

...Descriptors: digital subscriber lines ;  
...Identifiers: DSL ; ...

... POTS

24/3,K/7 (Item 7 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7030791 INSPEC Abstract Number: B2001-10-6220B-006

**Title: Crosstalk identification in xDSL systems**

Author(s): Chaohuang Zeng; Aldana, C.; Salvekar, A.A.; Cioffi, J.M.

Author Affiliation: Dept. of Electr. Eng., Stanford Univ., CA, USA

Journal: IEEE Journal on Selected Areas in Communications vol.19, no.8  
p.1488-96

Publisher: IEEE,

Publication Date: Aug. 2001 Country of Publication: USA

CODEN: ISACEM ISSN: 0733-8716

SICI: 0733-8716(200108)19:8L:1488:CIXS;1-6

Material Identity Number: D958-2001-010

U.S. Copyright Clearance Center Code: 0733-8716/2001/\$10.00

Language: English

Subfile: B

Copyright 2001, IEE

**Title: Crosstalk identification in xDSL systems**

Abstract: Crosstalk among **telephone lines** in the same or neighboring bundles is a major impairment in current xDSL systems. This paper proposes a novel idea of an impartial third party that **identifies** the crosstalk coupling functions among the twisted pairs in these xDSL systems. The crosstalk **identification** technique includes the following four major procedures: (1) the transmitted and received signals from each **DSL** modem for a predefined time period are collected and sent to the third party; (2

...

... squares method. The performance of the cross correlation and least-squares methods is analyzed to **determine** the amount of data needed for **identification**. Simulation results show that the proposed methods can **identify** the crosstalk functions accurately and are consistent with theoretical analysis. These **identified** crosstalk functions can be used to significantly improve the data rate (e.g., multiuser **detection**) and to facilitate provisioning, maintenance, and diagnosis of the xDSL systems.

...Descriptors: **digital subscriber lines** ;

...Identifiers: crosstalk **identification** ; ...

... **telephone lines** ; ...

... **DSL** modem...

...multiuser **detection** ;

24/3,K/8 (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

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7004695 INSPEC Abstract Number: B2001-09-6220B-015

**Title: An improved channel model for ADSL and VDSL systems**

Author(s): Franklin, D.; Jiangtao Xi; Chicharo, J.

Author Affiliation: Dept. of Electr. Comput. & Telecommun. Eng., Wollongong Univ., NSW, Australia

Conference Title: WCC 2000 - ICCT 2000. 2000 International Conference on Communication Technology Proceedings (Cat. No.00EX420) Part vol.1 p. 30-3 vol.1

Editor(s): Ke, G.; Zhisheng, N.

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2000 Country of Publication: USA 2 vol. 1788 pp.

ISBN: 0 7803 6394 9 Material Identity Number: XX-1999-03659

U.S. Copyright Clearance Center Code: 0 7803 6394 9/2000/\$10.00

Conference Title: Proceedings of 16th International Conference on

Communication Technology (ICCT'00)

Conference Sponsor: Chinese Inst. Electron.; China Inst. Commun.; TC6 of IFIP; IEEE Commun. Soc.; IEE Electron. Div

Conference Date: 21-25 Aug. 2000 Conference Location: Beijing, China

Language: English

Subfile: B

Copyright 2001, IEE

Abstract: This paper examines existing channel models used with xDSL systems and identifies a key shortcoming - namely, the implicit assumption that all impulse noise originates at the transmitter...

... transmission line with a distributed noise source. This better reflects the nature of a real telephone line, and thus provides a more solid basis for simulation and optimisation of xDSL systems.

...Descriptors: digital subscriber lines ;

...Identifiers: telephone line ;

24/3,K/9 (Item 9 from file: 2)

DIALOG(R)File 2:INSPEC

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6924583 INSPEC Abstract Number: B2001-06-6220B-019

Title: A CMOS direct access arrangement using digital capacitive isolation

Author(s): Krone, A.; Tuttle, T.; Scott, J.; Hein, J.; Dupuis, T.; Sooch, N.

Author Affiliation: Silicon Labs. Inc., Austin, TX, USA

Conference Title: 2001 IEEE International Solid-State Circuits Conference. Digest of Technical Papers. ISSCC (Cat. No.01CH37177) p. 300-1, 456

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2001 Country of Publication: USA 495 pp.

ISBN: 0 7803 6608 5 Material Identity Number: XX-2001-00520

U.S. Copyright Clearance Center Code: 0 7803 6608 5/2001/\$10.00

Conference Title: 2001 IEEE International Solid-State Circuits Conference. Digest of Technical Papers

Conference Sponsor: IEEE Solid-State Circuits Soc.; IEEE San Francisco Sect.; Bay Area Council; Univ. PA

Conference Date: 5-7 Feb. 2001 Conference Location: San Francisco, CA, USA

Language: English

Subfile: B

Copyright 2001, IEE

...Abstract: the public switched telephone network (PSTN). In addition to DC and AC termination and ring detect functions, the DAA must also provide high voltage isolation (>1500 V) between the phone network...

... CMOS devices in 16-pin SOIC packages that provides a digital communication link between the telephone line circuitry (isolated side) and the system side of the barrier. A few low-cost, high...

...Descriptors: digital subscriber lines ;

24/3,K/10 (Item 10 from file: 2)

DIALOG(R)File 2:INSPEC

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6877718 INSPEC Abstract Number: B2001-05-6210L-022, C2001-05-5620W-014

Title: DSL : the promising standard for new Internet era

Author(s): Yen, D.C.; Chou, D.C.; Jyun-Cheng Wang

Author Affiliation: Dept. of Decision Sci., Miami Univ., Oxford, OH, USA  
Journal: Computer Standards & Interfaces vol.23, no.1 p.29-37  
Publisher: Elsevier,  
Publication Date: March 2001 Country of Publication: Netherlands  
CODEN: CSTIEZ ISSN: 0920-5489  
SICI: 0920-5489(200103)23:1L.29:PSI;1-3  
Material Identity Number: J996-2001-001  
U.S. Copyright Clearance Center Code: 0920-5489/2001/\$20.00  
Language: English  
Subfile: B C  
Copyright 2001, IEE

**Title:** DSL : the promising standard for new Internet era

**Abstract:** DSL ( Digital Subscriber Line ) is the technology that enables high-speed data transfer and rapid access to the Internet via telephone lines , with a secure connection straight into the high-speed network. DSL has raised its importance in the data communication industry. This article identifies the importance of DSL in Internet age, illustrates DSL 's analysis and development frameworks, and delineates future development of the DSL technology.

**Descriptors:** digital subscriber lines ;

**Identifiers:** DSL ; ...

... Digital Subscriber Line ;

24/3,K/11 (Item 11 from file: 2)

DIALOG(R)File 2:INSPEC

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6544447 INSPEC Abstract Number: B2000-05-6220B-005

**Title:** A new channel model for ADSL and VDSL systems

**Author(s):** Franklin, D.; Chicharo, J.; Jiangtao Xi

**Author Affiliation:** Sch. of Electr., Comput. & Telecommun. Eng., Wollongong Univ., NSW, Australia

**Conference Title:** ISSPA '99. Proceedings of the Fifth International Symposium on Signal Processing and its Applications (IEEE Cat. No.99EX359) Part vol.2 p.741-4 vol.2

**Editor(s):** Deriche, M.; Boashash, B.; Boles, W.

**Publisher:** Queensland Univ. Technol., Brisbane, Qld., Australia

**Publication Date:** 1999 **Country of Publication:** Australia 2 vol.(xx+xvii+1016) pp.

**ISBN:** 1 86435 451 8 **Material Identity Number:** XX-1999-03211

**Conference Title:** Proceedings of Fifth International Symposium on Signal Processing and its Applications

**Conference Sponsor:** IEEE Queensland Sect

**Conference Date:** 22-25 Aug. 1999 **Conference Location:** Brisbane, Qld., Australia

**Language:** English

**Subfile:** B

**Copyright** 2000, IEE

**Abstract:** This paper presents a new model for telephone lines which is intended for use in simulations of digital subscriber line ( DSL ) telecommunications systems. It combines the broadband filter characteristics of the line with an improved noise...

... be anywhere along the length the line. Since impulse noise is a major impediment to DSL systems, such a model is expected to offer advantages over simpler models. A method for determining the parameters of this model is also proposed.



Descriptors: **digital subscriber lines** ;  
...Identifiers: **telephone lines** ; ...

... **digital subscriber line** ; ...

... **DSL telecommunications systems**

**24/3,K/12** (Item 12 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6532167 INSPEC Abstract Number: B2000-04-6220B-009

**Title: Microfilter design promises peaceful coexistence between ADSL and the voiceband**

Author(s): Ting Sun  
Journal: EDN (US Edition) vol.44, no.25 p.55-6, 58, 60, 62  
Publisher: Cahners Publishing,  
Publication Date: 9 Dec. 1999 Country of Publication: USA  
CODEN: EDNEFD ISSN: 0012-7515  
SICI: 0012-7515(19991209)44:25L:55:MDPP;1-W  
Material Identity Number: G340-2000-002  
Language: English  
Subfile: B  
Copyright 2000, IEE

**Abstract:** The current asymmetrical **digital subscriber line** (ADSL) standard, or T1.413 issue 2/G.DMT, incorporates a **plain - old telephone system ( POTS )** splitter in both the remote terminal and the central office to separate the voiceband from the **DSL** spectrum. Thus, ADSL deployment to residential customers usually requires professional installation of a splitter. The emerging splitterless ADSL standard, commonly known as G.Lite, eliminates the need for a **POTS** splitter and allows rapid mass deployment of **DSL** technology. However, approximately 80% of homes in a recent field trial of G.Lite required...

... each phone computer modem, fax, and answering machine to eliminate potential noise or interference between **POTS** devices and the ADSL modem is necessary in most cases. These microfilters are, in essence, distributed splitters; they move the filtering function from outside the house to **locations** inside the house at which the end user can perform the installation.

...Descriptors: **digital subscriber lines** ;  
...Identifiers: asymmetrical **DSL** ; ...

...asymmetrical **digital subscriber line** ;

**24/3,K/13** (Item 13 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6306618 INSPEC Abstract Number: B1999-09-6220B-003

**Title: End-to-end protocol stacks in the Alcatel 1000 ADSL access network**

Author(s): De Belder, D.  
Author Affiliation: Alcatel Bell, Antwerpen, Belgium  
Conference Title: ICCT'98. 1998 International Conference on Communication Technology. Proceedings (IEEE Cat. No.98EX243) Part vol.2 p.6 pp. vol.2  
Editor(s): Chunpei, X.

Publisher: Publishing House of Constr. Mater, Beijing, China  
Publication Date: 1998 Country of Publication: China 2 vol.787+832  
pp.

ISBN: 7 80090 827 5 Material Identity Number: XX-1998-03567  
Conference Title: ICCT'98. 1998 International Conference on Communication  
Technology. Proceedings  
Conference Sponsor: China Inst Commun. (CIC); Chinese Inst. Electron.  
(CIE); IEEE Commun. Soc. (IEEE COMSOC)  
Conference Date: 22-24 Oct. 1998 Conference Location: Beijing, China  
Language: English  
Subfile: B  
Copyright 1999, IEE  
Abstract: The success of a new technology like ADSL (asymmetric **digital  
subscriber line** ) largely depends on the ability to offer viable  
end-to-end network architectures and feasible...

... 1000 ADSL are an access adapter (AA) at the central office or at a  
remote **location** , and an ADSL network termination (ANT) at the  
subscriber's premises (home, office). The access...

... Mbit/s) or Ethernet connection, and guarantees a transparent connection  
to the subscriber telephone set ( **POTS** /ISDN). At the heart of both the AA  
and the ANT is an ADSL modem...

...Descriptors: **digital subscriber lines** ;  
...Identifiers: asymmetric **digital subscriber line** ;

24/3,K/14 (Item 14 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6216892 INSPEC Abstract Number: B1999-05-6210L-091, C1999-05-5620L-036  
**Title: An Ethernet for home applications: local area network via  
telephone line**  
Author(s): Meryk, W.  
Journal: Elektronik vol.47, no.24 p.40-4  
Publisher: WEKA-Fachzeitschriften,  
Publication Date: 24 Nov. 1998 Country of Publication: Germany  
CODEN: EKRKAR ISSN: 0013-5658  
SICI: 0013-5658(19981124)47:24L:40:EHAL;1-C  
Material Identity Number: E071-1998-025  
Language: German  
Subfile: B C  
Copyright 1999, IEE

**Title: An Ethernet for home applications: local area network via  
telephone line**

...Abstract: between classical Ethernet (IEEE 802.3) with CSMA/CD-MAC  
(carrier sense multiple access/collision **detection** with medium access  
control) and a new transmission medium. Standard Ethernet software is to be  
...

... and peripherals, TV, Internet telephone and monitoring camera, with  
outside connections via ISDN or analogue **lines** . The **telephone line** is  
to be used in three frequency bands: Analogue, ADSL and the new Phoneline  
Networking...

...Descriptors: **digital subscriber lines** ;  
...Identifiers: **telephone line** ; ...

...collision **detection** ;

24/3,K/15 (Item 15 from file: 2)  
DIALOG(R)File 2:INSPEC  
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6117203 INSPEC Abstract Number: B9902-6220B-002  
**Title: Digital services: is your outside plant ready?**  
Author(s): Baker, T.  
Author Affiliation: Tektronix Inc., Bend, OR, USA  
Journal: Telephony vol.235, no.15 p.42, 46, 48, 50  
Publisher: PRIMEDIA Intertec,  
Publication Date: 12 Oct. 1998 Country of Publication: USA  
CODEN: TLPNAS ISSN: 0040-2656  
SICI: 0040-2656(19981012)235:15L:42:DSYO;1-N  
Material Identity Number: T177-98047  
U.S. Copyright Clearance Center Code: 0040-2656/98/\$2.50+00.00  
Language: English  
Subfile: B  
Copyright 1998, IEE

...Abstract: Large-scale deployment of these new digital services will require a faster, easier way to **determine** if a subscriber's existing **POTS** line can support high-speed requirements. Services such as ISDN and **DSL** require tools such as time-domain reflectometers and load coil counters to prevent potential problems...

...Descriptors: **digital subscriber lines** ;  
...Identifiers: **POTS** ; ...

... **DSL** ;

24/3,K/16 (Item 16 from file: 2)  
DIALOG(R)File 2:INSPEC  
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6038938 INSPEC Abstract Number: B9811-6220B-009  
**Title: DSL top 10 [splitterless DSL]**  
Author(s): Wiener, F.  
Author Affiliation: Hotwire DSL Products Div., Paradyne, Largo, FL, USA  
Journal: Telephony vol.234, no.23 p.102, 104, 106, 108  
Publisher: PRIMEDIA Intertec,  
Publication Date: 8 June 1998 Country of Publication: USA  
CODEN: TLPNAS ISSN: 0040-2656  
SICI: 0040-2656(19980608)234:23L:102:S;1-C  
Material Identity Number: T177-98029  
U.S. Copyright Clearance Center Code: 0040-2656/98/\$2.50+00.00  
Language: English  
Subfile: B  
Copyright 1998, IEE

**Title: DSL top 10 [splitterless DSL]**  
Abstract: Interest in high-speed access over **digital subscriber lines** is high. Announcements of splitterless technologies as well as an initiative by Compaq, Intel and Microsoft to develop a universal asymmetrical **DSL** splitterless standard, have increased this interest. It is important to understand the breadth and depth of issues that have contributed to the delay in widescale **DSL** deployment. **DSL** 's ability to operate over the same copper wire that provides basic service is essential  
...

...data service from the telephone service at the customer premises and the network service provider location. Emerging splitterless solutions will allow POTS and DSL data service to extend directly into the customer premises over existing intrabuilding telephone wire.

...Identifiers: digital subscriber lines ; ...

... DSL ; ...

... POTS ;

24/3,K/17 (Item 17 from file: 2)

DIALOG(R)File 2:INSPEC

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5296754 INSPEC Abstract Number: B9607-6220B-031

**Title: A CMOS activity detector for ADSL link**

Author(s): Macq, D.; Chang, Z.-Y.; Boxho, J.; Haspeslagh, D.

Author Affiliation: Alcatel Bell Telephone, Antwerp, Belgium

Conference Title: ESSCIRC '95. Twenty-First European Solid-State Circuits Conference. Proceedings p.430-3

Editor(s): Garda, P.

Publisher: Editions Frontieres, Gif sur Yvette, France

Publication Date: 1995 Country of Publication: France xii+459 pp.

ISBN: 2 86332 180 3 Material Identity Number: XX95-01930

Conference Title: Proceedings of 21st European Solid-State Circuits Conference ESSCIRC '95

Conference Date: 19-21 Sept. 1995 Conference Location: Lille, France

Language: English

Subfile: B

Copyright 1996, IEE

**Title: A CMOS activity detector for ADSL link**

Abstract: A CMOS activity detector, integrated into a CMOS 0.7  $\mu$ m analog front-end, is used to reduce the sleep mode power dissipation of an ADSL link (asymmetric digital subscriber line). A dynamic analog sensor using correlated double sampling produces high sensitivity of 1.5 mVpp, with more than 20 dB DC and POTS (plain old telephone signal) signals rejection. In sleep mode, only the activity detector has to be powered, consuming 6.2 mW, compared to the 5-6 W required...

Identifiers: CMOS activity detector ; ...

...asymmetric digital subscriber line ; ...

... plain old telephone signal...

... POTS signals rejection

24/3,K/18 (Item 1 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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06103716 E.I. No: EIP02317039699

**Title: Vectored transmission for digital subscriber line systems**

Author: Ginis, George; Cioffi, John M.

Corporate Source: Broadband Commun. Grp. Texas Instrum, San Jose, CA 95124, United States

Source: IEEE Journal on Selected Areas in Communications v 20 n 5 June 2002. p 1085-1104

Publication Year: 2002  
CODEN: ISACEM ISSN: 0733-8716  
Language: English

**Title: Vectored transmission for digital subscriber line systems**

**Abstract:** This paper describes the "vectored" transmission technique for **digital subscriber line (DSL)** systems, which utilizes user coordination at the central office or optical network unit. This method...

...improvements are particularly pronounced in environments with strong FEXT such as in very high-speed DSL. Discrete multitone is employed for each user with additional constraints on the cyclic prefix length...

**Descriptors:** Digital communication systems; **Telephone lines**; Communication channels (information theory); Interference suppression; Crosstalk; Frequency division multiple access; Optimization; Mathematical models

**Identifiers:** **Digital subscriber line**; Multiple access channel; Multiuser **detection**; Far-end crosstalk

24/3,K/19 (Item 2 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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06103382 E.I. No: EIP02317039256

**Title: Profile detection in multiuser digital subscriber line systems**

**Author:** Salvekar, Atul A.; Louveaux, Jerome; Aldana, Carlos; Fang, Jeannie Lee; De Carvalho, Elisabeth; Cioffi, John M.

**Corporate Source:** Intel Communications Group, Sacramento, CA 95827, United States

**Source:** IEEE Journal on Selected Areas in Communications v 20 n 5 June 2002. p 1116-1125

**Publication Year:** 2002

**CODEN:** ISACEM **ISSN:** 0733-8716

**Language:** English

**Title: Profile detection in multiuser digital subscriber line systems**

**Abstract:** Multiuser transmission methods for **digital subscriber line (DSL)** systems have become of interest with the potential for increased data rate and loop reach...

...of crosstalk interferers, called the crosstalk profile, and their associated channel responses are known. For **DSL** systems, the interferers are often uncoordinated, so that in a dynamic environment where **DSL** transmitters can energize and deenergize, the crosstalk profile cannot be transmitted to the user of...

...intractable for general transmission systems, channel and crosstalk analysis can make use of the specific **DSL** environment. Namely, the physical channels in a **DSL** system do not change rapidly, and hence estimates of the crosstalk channel can be saved...

...this reason, we introduce the concept of a channel profile. We develop several algorithms to **detect** the crosstalk profile and investigate the asymptotic behavior of the new algorithms. Simulations show that for typical crosstalk interference scenarios, the observation time to **determine** the correct crosstalk profile at probability of error less than  $10^{-3}$  can be less...

Descriptors: Digital communication systems; **Telephone lines** ;  
Communication channels (information theory); Crosstalk; Interference  
suppression; Algorithms; Mathematical models

Identifiers: **Digital subscriber line** ; Multiuser detection ;  
Multiuser transmission; Crosstalk profile; Profile detection

24/3,K/20 (Item 3 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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06103380 E.I. No: EIP02317039254

**Title: Use of the reference noise method bounds the performance loss due to upstream power backoff**

Author: Wiese, Brian; Jacobsen, Krista S.  
Corporate Source: Texas Instrum. Broadband Commun. Grp, San Jose, CA  
95124, United States  
Source: IEEE Journal on Selected Areas in Communications v 20 n 5 June  
2002. p 1075-1084  
Publication Year: 2002  
CODEN: ISACEM ISSN: 0733-8716  
Language: English

...Abstract: at the maximum allowed power spectral density. The result is significant for very high-speed **digital subscriber line** applications because it allows service providers to **determine** a priori the worst case impact of upstream power backoff on upstream bit rates without...

Descriptors: Digital communication systems; **Telephone lines** ;  
Transceivers; Crosstalk; Signal to noise ratio; Mathematical models  
Identifiers: Very high speed **digital subscriber line** ; Upstream  
power backoff; Far-end crosstalk; Reference noise method

24/3,K/21 (Item 4 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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06103379 E.I. No: EIP02317039253

**Title: Defining upstream power backoff for VDSL**  
Author: Schelstraete, Sigurd  
Corporate Source: Alcatel BELL, Francis, B-2018 Antwerp, Belgium  
Source: IEEE Journal on Selected Areas in Communications v 20 n 5 June  
2002. p 1064-1074  
Publication Year: 2002  
CODEN: ISACEM ISSN: 0733-8716  
Language: English

Abstract: Very high-speed **digital subscriber line** (VDSL) upstream data transmission in a distributed environment will suffer from relatively strong far-end...

...formulation is presented in terms of a "reference PSD" and a method is proposed to **determine** the optimal value of the reference PSD. This paper is mainly based on work that...

Descriptors: Digital communication systems; **Telephone lines** ;  
Crosstalk; **Telephone** interference; Spurious signal noise; Mathematical  
models

Identifiers: Very high speed **digital subscriber line** ; Upstream  
power backoff; Far-end crosstalk; Near-end crosstalk

24/3,K/22 (Item 5 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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05928282 E.I. No: EIP01436706139

**Title:** Crosstalk identification in xDSL systems  
**Author:** Zeng, C.; Aldana, C.; Salvekar, A.A.; Cioffi, J.M.  
**Corporate Source:** Electrical Engineering Department David Packard  
Electrical Engineering Stanford University, Stanford, CA 94305-9515, United  
States  
**Source:** IEEE Journal on Selected Areas in Communications v 19 n 8 August  
2001. p 1488-1496  
**Publication Year:** 2001  
**CODEN:** ISACEM **ISSN:** 0733-8716  
**Language:** English

**Title:** Crosstalk identification in xDSL systems  
**Abstract:** Crosstalk among **telephone lines** in the same or neighboring  
bundles is a major impairment in current xDSL systems. This paper proposes  
a novel idea of an impartial third party that **identifies** the crosstalk  
coupling functions among the twisted pairs in these xDSL Systems. The  
crosstalk **identification** technique includes the following four major  
procedures: 1) the transmitted and received signals from each **DSL** modem  
for a predefined time period are collected and sent to the third party; 2  
...  
...squares method. The performance of the cross correlation and  
least-squares methods is analyzed to **determine** the amount of data needed  
for **identification**. Simulation results show that the proposed methods  
can **identify** the crosstalk functions accurately and are consistent with  
theoretical analysis. These **identified** crosstalk functions can be used  
to significantly improve the data rate (e.g., multiuser **detection**) and  
to facilitate provisioning, maintenance, and diagnosis of the xDSL  
systems. 14 Refs.

**Descriptors:** Digital communication systems; Correlation **detectors** ;  
Crosstalk; Modems; Least squares approximations; Computer simulation;  
Signal receivers; Computational complexity  
**Identifiers:** **Digital subscriber line (DSL)**

24/3,K/23 (Item 6 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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05866095 E.I. No: EIP01316599302

**Title:** Video over DSL architecture  
**Author:** Merriman, P.  
**Corporate Source:** Video Solutions Marketing Alcatel Carrier  
Internetworking Div., Kanata, Ont., Canada  
**Source:** Alcatel Telecommunications Review n 4 2000. p 250-257  
**Publication Year:** 2000  
**CODEN:** ATREFX **ISSN:** 1267-7167  
**Language:** English

**Title:** Video over DSL architecture  
**Abstract:** Asymmetric **Digital Subscriber Line (ADSL)** technology and  
the dedicated last mile link offer unprecedented scalability for  
interactive video services...

...combination of interactive video and broadcast services. By offering these new video services over ordinary **telephone lines**, users will be able to **determine** how they view television content and will also change the home entertainment landscape. (Edited abstract)

Descriptors: Telecommunication services; Television broadcasting; Video on demand; Videocassette recorders; **Telephone lines**; Telecommunication networks; Cable television systems; Marketing

Identifiers: Asymmetric **digital subscriber line**; Competitive local exchange carriers; Multichannel video program distribution

24/3,K/24 (Item 7 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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05839141 E.I. No: EIP01256550312

**Title: Access to Bandwidth: Paving the way to broadband Britain**  
Author: Clarkson, D.  
Corporate Source: OFTEL, London EC4M 7JJ, United Kingdom  
Source: Journal of the Institution of British Telecommunications Engineers v 1 n 3 July/September 2000 2000. p 5-9  
Publication Year: 2000  
CODEN: JIBEF9 ISSN: 1470-5826  
Language: English

...Abstract: perceived benefits of LLU is in the provisioning of broadband access using technologies such as **digital subscriber line (DSL)**. However, there are complications associated with the deployment of **DSL** technologies and these are compounded in an unbundled environment. If left unresolved these complications have the potential to limit broadband deployment using this technology. This paper **identifies** the main technical issues that LLU raises and **identifies** how these issues are being resolved to ensure that existing and future services can be...

Identifiers: **Digital subscriber lines (DSL)**; Public switch **telephone** networks (PSTN); Local loop unbundling (LLU)

24/3,K/25 (Item 8 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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05633469 E.I. No: EIP00085299658

**Title: Propagation modelling for wireless local loop channel**  
Author: Har, Dongsoo; Xu, Ce; Xia, Howard H.  
Corporate Source: AirTouch Cellular, Walnut Creek, CA, USA  
Source: International Journal of Communication Systems v 13 n 3 May 2000. p 231-241  
Publication Year: 2000  
CODEN: IJCYEZ ISSN: 1074-5351  
Language: English

...Abstract: that WLL systems are considered as a new contender for broadband services against ISDN, Asymmetrical **Digital Subscriber Line (ADSL)** and cable TV. In such WLL systems, subscriber antenna might be mounted on rooftops...

...models to WLL-specific situations in order to predict path loss for various receiving antenna **locations**. In this paper WLL propagation models are presented through appropriate modification of several models in...

Descriptors: Cellular radio systems; Broadband networks; **Telephone**



systems; **Telephone lines** ; Cable television systems; Mathematical models  
; Antennas; Resource allocation; Packet switching; Congestion control  
(communication)

**24/3,K/26** (Item 9 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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05308290 E.I. No: EIP99074708420  
**Title: xDSL loop qualification and testing**  
Author: Goralski, Walter  
Corporate Source: Hill Associates  
Source: IEEE Communications Magazine v 37 n 5 1999. p 79-83  
Publication Year: 1999  
CODEN: ICOMD9 ISSN: 0163-6804  
Language: English

...Abstract: of xDSL deployment must accelerate. This acceleration places increased emphasis on copper loop prequalification, which **determines** the suitability of a given loop for some class of xDSL service, and turn-up...

Descriptors: **Telephone lines** ; Telecommunication services;  
Telecommunication control  
Identifiers: **Digital subscriber lines** (xDSL)

**24/3,K/27** (Item 10 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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05205276 E.I. No: EIP99014537012  
**Title: While RBOCs drag their heels, CLECs, ISPs mean business**  
Author: O'Keefe, Susan  
Source: Telecommunications (Americas Edition) v 32 n 12 Dec 1998. p 42-43  
Publication Year: 1998  
CODEN: TLCMDV ISSN: 0278-4831  
Language: English

Abstract: While many vendors and service providers claim **digital subscriber line** (DSL) equipment and services are ready for the mass market, actual deployment is a slow and...

...Competitive local exchange carriers and Internet service providers, on the other hand, are aggressively marketing **DSL** services to business customers. The success, however, is limited and is hard-won because offering service means co- **locating** in an RBOC's central office.

Descriptors: Data communication systems; Telecommunication services;  
Carrier **telephone** ; **Telephone lines** ; Cable television systems;  
Voice/data communication systems; Modems; Routers; Marketing; Competition  
Identifiers: **Digital subscriber lines** (DSL); Competitive local exchange carriers (CLEC)

**24/3,K/28** (Item 11 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04914772 E.I. No: EIP98014027457  
**Title: ADSL - the gateway to video on demand services?**  
Author: Scott, B.D.

Corporate Source: TLI Broadcast Systems  
Conference Title: Proceedings of the 1997 International Broadcasting Convention  
Conference Location: Amsterdam, Neth Conference Date: 19970912-19970916  
E.I. Conference No.: 47591  
Source: IEE Conference Publication n 447 1997. IEE, Stevenage, Engl. p 12-17  
Publication Year: 1997  
CODEN: IECPB4 ISSN: 0537-9989  
Language: English

...Abstract: mechanism has been emerging. Considerable work has gone into expanding the capacity of standard domestic **telephone lines** to carry high bandwidth traffic. This enables multi-channel Video on Demand services from file servers **located** in local exchanges and high speed Internet access to be carried directly to people's...

Descriptors: Television broadcasting; **Telephone lines** ; Digital signal processing; Gateways (computer networks); Video signal processing; Telecommunication traffic; Bandwidth; Communication channels (information

...  
Identifiers: **Digital subscriber line** ; Information superhighway; Internet

24/3,K/29 (Item 12 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04869108 E.I. No: EIP97113929363  
**Title: ADSL and high bandwidth over copper lines**  
Author: Greggains, David  
Corporate Source: Gorham and Partners, Ltd, London, UK  
Source: International Journal of Network Management v 7 n 5 Sep-Oct 1997. p 277-287  
Publication Year: 1997  
CODEN: INMTEU ISSN: 1055-7148  
Language: English

Abstract: A technology called Asymmetrical **Digital Subscriber Line** (ADSL) introduces a new factor in the cost equation by making practical multimegabit data transmission...

...asymmetrical data transmission speed, careful thought needs to be given on the best use and **location** of such services. 2 Refs.

Descriptors: Data communication systems; **Telephone lines** ; Cost effectiveness; Wide area networks; Local area networks

Identifiers: Asymmetrical **digital subscriber line** (ADSL); Copper **telephone access lines** ; Internet

24/3,K/30 (Item 13 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04496162 E.I. No: EIP96093329611  
**Title: Rapid tool to dimension broadband nodes in the access**  
Author: Paquet, Francis  
Corporate Source: Bell Canada, Can  
Conference Title: Proceedings of the 1996 IEEE International Conference on Communications, ICC'96. Part 1 (of 3)

Conference Location: Dallas, TX, USA    Conference Date: 19960623-19960627  
E.I. Conference No.: 45274  
Source: IEEE International Conference on Communications v 1 1996. IEEE,  
Piscataway, NJ, USA, 96CB35916. p 315-319  
Publication Year: 1996  
CODEN: 002115  
Language: English

...Abstract: a dimensioning tool for broadband nodes in the access. The tool can be used to **determine** the bandwidth needed to serve a given population or, with a given bandwidth, to evaluate...

...Descriptors: Telecommunication services; Bandwidth; Mathematical models; Voice/data communication systems; Fiber optic networks; Coaxial cables; Switches; **Telephone lines**

...Identifiers: Broadband access delivery systems; Blocking model; Hybrid fiber coax system; Fiber to the curb; Broadband **digital subscriber line** ; Access mux

24/3,K/31            (Item 14 from file: 8)  
DIALOG(R)File    8:EI Compendex(R)  
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04199133    E.I. No: EIP95072764748

**Title: High bit rate asymmetric digital communications over telephone loops**

Author: Kerpez, Kenneth J.; Sistanizadeh, Kamran  
Corporate Source: Bellcore, Morristown, NJ, USA  
Source: IEEE Transactions on Communications v 43 n 6 Jun 1995. p 2038-2049  
Publication Year: 1995  
CODEN: IECMBT    ISSN: 0090-6778  
Language: English

Abstract: Asymmetric **digital subscriber lines** (ADSL) transmit high bit rate data in the forward direction to the subscriber, and lower...

...and NEXT from other digital transmission systems that share its spectrum, such as Basic Access **DSL** , HDSL, and T1 lines. This paper **determines** the performance of DSL rate passband ADSL's in the presence of each of these...

...high frequency loss than passband ADSL's. The range of reliable baseband ADSL transmission is **determined** for forward data rates between 1.5 and 9 Mb/s, and reverse data rates...

Descriptors: Digital communication systems; **Telephone lines** ; Performance; Crosstalk; Communication channels (information theory); Frequency division multiplexing; Electromagnetic compatibility; Pulse amplitude modulation; Echo...

Identifiers: Asymmetric **digital subscriber lines** ; **Telephone loops**; Self far end crosstalk; Self near end crosstalk

24/3,K/32            (Item 15 from file: 8)  
DIALOG(R)File    8:EI Compendex(R)  
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04170509    E.I. No: EIP95052685193

**Title: ADSL. A new twisted-pair access to the information highway**  
Author: Kyees, P.J.; McConnell, R.C.; Sistanizadeh, K.

Corporate Source: Science and Technology Department at Bellsouth, Birmingham, Al, USA

Source: IEEE Communications Magazine v 33 n 4 Apr 1995. p 52-59

Publication Year: 1995

CODEN: ICOMD9 ISSN: 0163-6804

Language: English

...Abstract: proposed and some are currently being tested in field trials. One of these, the asymmetric **digital subscriber line** (ADSL), is a technology that takes advantage of the existing twisted-pair copper loop that...

...access link above the existing telephone service. Since ADSL makes use of the existing copper **telephone line**, its application in the telephone network can conceivably be nearly as ubiquitous as the public...

...Its notable advantages are its ease of installation and its portability for use in other **locations** when the customer requests a disconnect or if a more permanent technology such as HFC...

Identifiers: Twisted pair copper loops; Asymmetric **digital subscriber lines**; Spectrum compatibility; Transmission delays

24/3,K/33 (Item 16 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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03997058 E.I. No: EIP94122454154

Title: **Fiber deployment speeds convergence in testing**

Author: O'Shea, Dan

Source: Telephony v 227 n 11 Sept 12 1994. p 46-52

Publication Year: 1994

CODEN: TLPNAS ISSN: 0040-2656

Language: English

...Abstract: tools. However, more economical alternative architectures such as hybrid fiber/coax and copper-enhancing asymmetrical **digital subscriber line** (ADSL) requires new innovations. This includes additional equipments such as integrated fiber/coax OTDR, power meter and fiber **identifier** combined in one package. Issues such as testing of the coax part of the hybrid...

Descriptors: Fibers; Coaxial cables; **Telephone systems; Telephone lines**; Video **telephone** equipment; Telecommunication services

Identifiers: Hybrid fiber coaxial cables; Asymmetrical **digital subscriber line**; Fiber test equipment; Power meter

24/3,K/34 (Item 17 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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03945276 E.I. No: EIP94091410903

Title: **Analysis of wideband noise measurements and implications for signal processing in ADSL systems**

Author: Valenti, C.F.; Kerpez, K.

Corporate Source: Bellcore, Morristown, NJ, USA

Conference Title: Proceedings of the 1994 IEEE International Conference on Communications

Conference Location: New Orleans, LA, USA Conference Date: 19940501-19940505

E.I. Conference No.: 20804  
Source: Conference Record - International Conference on Communications v  
2 1994. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA. p 826-832  
Publication Year: 1994  
CODEN: CICC DV ISSN: 0536-1486 ISBN: 0-7803-1826-9  
Language: English

...Abstract: presented in this paper. This analysis constitutes a preliminary characterization of wideband noise at residential locations and is an important factor in determining some of the signal processing needs of Asymmetric Digital Subscriber Line (ADSL) systems. The impulse noise data collected so far indicates that signal processing techniques like...

Descriptors: Signal noise measurement; Signal processing; Telephone lines ; Electric waveforms; Time domain analysis; Signal encoding; Error correction; Data acquisition; Communication channels (information theory...

Identifiers: Wideband noise measurement; Asymmetric digital subscriber line ; Copper telephone loops; Impulse noise; Block coding; Energy spectrum density; Probability density functions; Time waveform voltage amplitudes

24/3,K/35 (Item 1 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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03528470 Genuine Article#: PL138 No. References: 4  
Title: NEW TRELLIS LINE CODES FOR HDSL WITH ERROR-CORRECTION CAPABILITY  
Author(s): AYGOLU U; PANAYIRCI E  
Corporate Source: ISTANBUL TECH UNIV, FAC ELECT & ELECTR ENGN, 80626  
MASLAK/ISTANBUL//TURKEY/  
Journal: ELECTRONICS LETTERS, 1994, V30, N19 (SEP 15), P1575-1576  
ISSN: 0013-5194  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: are proposed for high speed digital transmission over metallic cables, such as high bit-rate digital subscriber line (HDSL). For a signalling interval T (in seconds) the bulk of the signal energy is located below 1/4T Hz, preventing electromagnetic emissions and minimising the effect of near-end crosstalk.

24/3,K/36 (Item 1 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
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01698066 20021200721  
Trends bei ISDN/ DSL -Messtechnik  
Kien, M  
Funkschau, v75, n24, pp54-56, 2002  
Document type: journal article Language: German  
Record type: Abstract  
ISSN: 0016-2841

Trends bei ISDN/ DSL -Messtechnik

ABSTRACT:

...Aurora Tango. Das Handheld besteht aus einem Basis-Modul und verschiedenen aufsteckbaren Schnittstellen-Modulen fuer POTS , ISDN und DSL . Die gewonnenen Messwerte werden in einem PC abgespeichert. Die Firma

Onsoft bietet mit dem WatchS0...

DESCRIPTORS: AUTOMATIC SUPERVISION; USER FRIENDLINESS; ERROR ANALYSIS;  
DEFECT **DETECTION** ; HAND HELD PC; INVESTMENT COST; INTEGRATED SERVICES  
DIGITAL NETWORKS; MEASURED DATA EVALUATION; MEASUREMENT TECHNIQUE;  
SUBSCRIBER...

**24/3,K/37** (Item 2 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management  
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01557736 20011008426

**Yellow Submarine. Echopeilung: DSL -Leitungsdiagnostik ortet Fehlstellen**  
(Diagnostic for DSL cable locates failure spots)

Jones, WW

Conexant

Elektronik Journal, v36, n19, pp40-41,44,46, 2001

Document type: journal article Language: German

Record type: Abstract

ISSN: 0013-5674

**Yellow Submarine. Echopeilung: DSL -Leitungsdiagnostik ortet Fehlstellen**  
(Diagnostic for DSL cable locates failure spots)

ABSTRACT:

...die eine Form der Zeit-Reflektometrie (TDR - Time Domain Reflectometry)  
darstellt und sich in einem **DSL** -Transceiver integrieren laesst. Grundlage  
dafuer ist die digitale Signalisierung mit einer Sequenz von binaeren  
Zeichen...

...reduzierte Spektraldichte. Beim Empfaenger wird die Folge mit einem  
Korrelationsverfahren ausgefiltert. Signalverarbeitung im Transceiver und  
**DSL** -Leitungstest werden vorgestellt.

DESCRIPTORS: REFLECTOMETRY; REFLECTION PROPERTIES; CHRONOMETRY; SPREAD  
SPECTRUM; BLIP; **DIGITAL SUBSCRIBER LINES** ; DEFECT LOCALIZATION; DEFECT  
**DETECTION** ; TRANSCEIVERS; BLOCK DIAGRAM; MODEMS; **TELEPHONE LINES**

**24/3,K/38** (Item 3 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management  
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01522663 20010604058

**Performance of a new multipair copper cable design optimized for evolving  
xDSL applications**

(Die Eigenschaften von mehrpaarigen Kupferleitungen fuer das xDSL-Verfahren  
)

Camara, S; Cortines, CG; Robredo, JC; Vaquero, O

Alcatel Cable Iberica, Cantabria, E

Proc. of 49th Internat. Wire and Cable Symp., Atlantic City, USA, Nov  
13-16, 20002000

Document type: Conference paper Language: English

Record type: Abstract

ABSTRACT:

...and VDSL, can reach up to 2.5 km and 300 m respectively over standard  
**telephone lines** . It is very important to consider that all these systems  
are continually evolving. In fact...

...to solve the existing confusion, xDSL. Under this term the authors can

group all the **DSL** technologies, which can include all these variants (symmetric and asymmetric): ADSL, HDSL, iDSL, RADSL, BDSL...  
...cables optimised for the xDSL technologies. The optimum parameters needed in xDSL systems have been **determined** and, further to the values obtained, different designs of cable prototypes have been specified with...  
DESCRIPTORS: COPPER CONDUCTOR; DATA SIGNALLING RATE; BROADBAND TRANSMISSION  
; **DIGITAL SUBSCRIBER LINES** ; COMMUNICATION PROTOCOLS; B ISDN

**24/3,K/39** (Item 4 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
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01427972 20000606053

**Wunsch und Wirklichkeit. Schnelle Internet-Zugaenge fuer Vielsurfer**  
Meyer-Stumpf, M  
PC Magazin, Poing, v486, n7, pp108-110,112-113, 2000  
Document type: journal article Language: German  
Record type: Abstract  
ISSN: 0933-1557

**ABSTRACT:**

...dort bestimmten Wohnlagen nutzbar. Die Realitaet bleibt weit hinter den Ankuendigungen der Anbieter zurueck. T- **DSL** , das ASDL-Angebot der Dt. Telekom, steht in 60 Staedten zur Verfuegung. Die Telekom montiert einen **POTS** -Splitter, der Telefongespraechе herausfiltert, ein **DSL** -Modem sowie WinPoet fuer PPP-over-Ethernet. Im Test wurden die versprochenen 768 KBit / sec und Antwortzeiten unter 0,1 sec erreicht. T- **DSL** kostet DM 200 pro Monat. Cablesurf bietet bislang nur wenigen Kunden einen bidirektionalen Kabelanschluss mit...

...nur maximal 30 KByte / sec erreicht wurden. Im Ueberblick werden fuer 10 Angebote (T-ISDN **DSL** , **DSL** Full Flatrate, **DSL** Flatrate, KDT per Funk, Sitecom Standard, Cablesurf Plus, Ost-Tel-Com, Sky- **DSL** , Internet Via The Sky und UB-Sky) technische Voraussetzungen, Preise (einmalig und monatlich) und angegebene...

DESCRIPTORS: COMPETITION; MARKET REVIEW; COMMUNICATION SATELLITES; COST PERFORMANCE; PLANT **LOCATION** STUDY; TARIFFS; DATA SIGNALLING RATE; COMPARATIVE TESTING

**24/3,K/40** (Item 5 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
(c) 2004 FIZ TECHNIK. All rts. reserv.

00924219 I95092426212

**Minimum mean squared error impulse noise estimation and cancellation**  
(Abschaetzung und Unterdrueckung des  
Minimum-Mean-Square-Fehler-Impulsrauschens)  
Kerpez, KJ  
Bellcore, Morristown, NJ, USA  
IEEE Transactions on Signal Processing, v43, n7, pp1651-1662, 1995  
Document type: journal article Language: English  
Record type: Abstract  
ISSN: 1053-587X

**ABSTRACT:**

...can capture many samples of each impulse waveform. The arrival of an impulse can be **identified** by its distinct waveform and amplitude. The paper models impulse waveforms as a vector subspace...

...the subspace. The values of the mean squared error (MSE) of the amplitude estimates are **determined**. It is shown how the theory can be used to cancel impulse noise. Correlated impulse...

...the paper for modeling and canceling impulse noise measured on copper telephone loops for asymmetric **digital subscriber lines** (ADSL).

...DESCRIPTORS: DISTURBANCE ELIMINATION; LEAST SQUARES APPROXIMATIONS; SUBSCRIBER S LINES; IMPULSE; BROADBAND TRANSMISSION; DATA ACQUISITION; SAMPLING FREQUENCY; **TELEPHONE LINES**; DENOISING; INTERFERENCE SUPPRESSION; SIGNAL SAMPLING; SUBSCRIBER LOOPS

...IDENTIFIERS: VECTOR SUBSPACE; ARRIVAL TIME; MMSE ESTIMATION; CORRELATED IMPULSE NOISE; NOISE CANCELLATION; COPPER TELEPHONE LOOPS; ASYMMETRIC **DIGITAL SUBSCRIBER LINES**; ADSL; IMPULSRAUSCHEN; LEAST MEAN SQUARES METHODS; Rauschunterdrueckung; Impulsrauschen

**24/3,K/41** (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2004 The HW Wilson Co. All rts. reserv.

1732831 H.W. WILSON RECORD NUMBER: BAST96063130

**Delivering digital video**

Wright, Maury;

EDN v. 41 (Mar. 14 '96) p. 38-42+

DOCUMENT TYPE: Feature Article ISSN: 0012-7515

...ABSTRACT: of the applications, networks, and data transmission schemes for broadband data transmission. Service providers have **identified** a number of suitable wired- and wireless-network architectures for these purposes, and the necessary...

...top box, the Multichannel Multipoint Distribution Service, the possibilities of speeding up data transmission on **telephone lines** using the asymmetrical **digital subscriber - line** technology, and the cellularlike Local Multipoint Distribution Service.

**24/3,K/42** (Item 2 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2004 The HW Wilson Co. All rts. reserv.

1273989 H.W. WILSON RECORD NUMBER: BAST95069801

**ISDN modems increase telecomm bandwidth, meet Internet demand**

Ohr, Stephan;

Computer Design v. 34 (Nov. '95) p. 106+

DOCUMENT TYPE: Feature Article ISSN: 0010-4566

...ABSTRACT: main driver for bandwidth requirements. There are a number of solutions to the problem of **telephone - line** bandwidth that are attracting the attention of analog and mixed-signal IC manufacturers. In the...

...compression algorithms, services, and hardware are required. These include Hybrid Fiber/Coax and the asynchronous **digital subscriber line**, as well as the asynchronous transfer mode. Standards ratification and the availability of low-cost interface parts will **determine** whether or not implementations will happen in the near term.



24/3,K/43 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.  
(c) 2003 EBSCO Pub. All rts. reserv.

00608292 00NTO8-001

**The DSL connection -- DSL is hot - or it's not**

Kennard, Linda

NetWare Connection , August 1, 2000 , v11 n8 p6-14, 5 Page(s)

ISSN: 1076-3422

**The DSL connection -- DSL is hot - or it's not**

Presents a guide to broadband Internet access via **digital subscriber line (DSL)**. Points out that the geographical location of a customer's home or office influences the availability, potential speed, and cost of **DSL**. Enumerates seven flavors of **DSL**, each of which is designed to serve a different purpose and consequently offers a different data transmission rate. Defines Asymmetric **DSL** (**ADSL**). Cites G.lite **ADSL**. Talks about Rate Adaptive **DSL** (**RADSL**). Mentions the very-high-bit-rate **DSL** (**VDSL**). Highlights the high-bit-rate **DSL** (**HDSL**). Explains **HDSL-2**. Showcases the integrated services digital network **DSL** (**IDSL**). Displays a table comparing **HDSL**, **HDSL2**, G.lite, **ADSL**, **RADSL**, **VDSL**, and **IDSL** on upstream rate, downstream rate, distance limitations, and requirement for **plain old telephone service (POTS)**. Includes a sidebar, a photo, a table, and a diagram. (MEM)

Descriptors: **DSL** ; Internet Access; Broadband Communication; Connectivity; Data Communication; Client-Server Computing

24/3,K/44 (Item 2 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.  
(c) 2003 EBSCO Pub. All rts. reserv.

00553080 99IK11-408

**DSL deployment barrier falls amid consolidation; share lines, FCC orders carriers**

Salamone, Salvatore

InternetWeek , November 29, 1999 , n791 p8, 1 Page(s)

ISSN: 0746-8121

**DSL deployment barrier falls amid consolidation; share lines, FCC orders carriers**

Reports that the United States Federal Communications Commission released a line-sharing ruling that allows **digital subscriber line (DSL)** providers and competitive local exchange carriers (**CLECs**) to deliver **DSL** service over the same line as regular **telephone** service. Notes the decision is being hailed by service providers as a way to simplify their delivery of **DSL**. Says that the ruling will lower the monthly cost of **DSL** service, which currently starts at \$50 per month, by up to \$20 and cut in half the typical three to six weeks needed for **DSL** installation. Explains that line-sharing will enable service providers to test the line on the spot to **determine** if it will support **DSL**. Mentions the possibility that new service offerings could be developed as a result of the...

Descriptors: **DSL** ; Federal Government; Government Regulation; Telephone; Internet Access

24/3,K/45 (Item 3 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.  
(c) 2003 EBSCO Pub. All rts. reserv.

00537146 99NR06-001

**Hot carrier gear sparks new breed of services -- Voice over DSL , DSL .Lite around the corner**

Greene, Tim

Network World , June 7, 1999 , v16 n23 p1, 88, 2 Page(s)

ISSN: 0887-7661

**Hot carrier gear sparks new breed of services -- Voice over DSL , DSL .Lite around the corner**

Discusses trends in **digital subscriber line ( DSL )**, optical networking, and voice/data convergence technologies. Predicts that products in these markets will be...

... come from both established and new companies. Indicates each technology's capabilities; namely, Voice-over- **DSL** 's ability to support 16 voice connections over a single **telephone line** , **DSL .Lite**'s ability to download at 1.5Mbps via modem, Passive optical networking's (PON's) ability to deliver 100Mbps fiber connections to users' homes. Reports that two voice-over- **DSL** vendors, CopperCom and Jetstream, are working to make their equipment compatible with other equipment **located** at customers' sites and carriers' switching offices. Adds that BellSouth is introducing a PON solution...

Descriptors: **DSL** ; Modem; Telephony; Corporate Strategy; Product Development

**24/3,K/46 (Item 4 from file: 233)**

DIALOG(R)File 233:Internet & Personal Comp. Abs.

(c) 2003 EBSCO Pub. All rts. reserv.

00460143 97CW05-210

**Speedy 'net lines roll out slowly -- Carriers creep up on digital subscriber line**

Girard, Kim

Computerworld , May 19, 1997 , v31 n20 p45-48, 2 Page(s)

ISSN: 0010-4841

**Speedy 'net lines roll out slowly -- Carriers creep up on digital subscriber line**

Reports that **digital subscriber line ( DSL )** technology will take twice as long as expected to achieve market acceptance due to clashing...

... uncertainty over how to price and market the technology. Explains that potential users cannot have **DSL** access because they are **located** more than 18,000 feet from the carriers central office or have **telephone line** problems. States that **DSL** provides megabit speeds over regular **telephone lines** and enables carriers to offload data traffic from overloaded switches. Adds that most carriers are still testing the technology. Notes the development of hybrid ISDN and **DSL** , called IDSL, which can reach speeds of 768K bit/sec and that UUnet Technologies Inc...

**24/3,K/47 (Item 1 from file: 583)**

DIALOG(R)File 583:Gale Group Globalbase(TM)

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09564168

Competition in the last mile remains elusive

EUROPE: UNBUNDLED ACCESS STILL PROBLEMATIC

Financial Times (FT) 18 Jul 2001 IT p.4  
Language: ENGLISH

...acceptable results for the percentage exchanges that are able to provide full unbundled access to **telephone lines**. Conversely, figures from the European Competitive Telecommunications Association (ECTA) show that there is practically total control of all DSL lines by national incumbents across Austria, Spain, Italy, Germany, Belgium, France and Portugal. It is ...

... feeling that the issue will never be resolved due to problems with pricing and co- **location**.

24/3,K/48 (Item 2 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

09370977  
Nichimen to enter net access service business  
JAPAN: NICHIMEN TO PROVIDE NET ACCESS SERVICES  
Nikkei Net Interactive (ATM) 25 Sep 2000 NihonKeizai Shimbun, online  
Language: ENGLISH

Adopting the **DSL** (digital subscriber line) system of Acucore Inc of the US, fast-speed Internet access services will be introduced soon in Japan by Nichimen Corp, a trading firm. Via Acucore's **DSL** system, data can be transmitted at a speed of 1.5 megabytes per second through existing **telephone line** connections. The services will be offered starting October 2000 to offices in Osaka and Tokyo...

... Japan> via a new firm recently set up by Nichimen and a system design company **located** in Osaka.

24/3,K/49 (Item 3 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

06688111  
Promise of higher speed Net  
NEW ZEALAND: NEW RADSL SERVICE TRIAL BY TELECOM  
New Zealand Herald (XAV) 10 Sep 1998 P.C3  
Language: ENGLISH

A new service trial which utilises new rate adaptive **digital subscriber line** (RADSL) chip sets have been introduced by Telecom in Wellington, New Zealand. Telecom started the...

... new modems at 20 homes on its copper network. The RADSL service accelerates the copper **telephone line** capacities at 7Mbps into the home and 640Kbps out. It then conducts automatic **detection** and alignment to patchy line situations.

24/3,K/50 (Item 4 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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06122229

Interaktives TV via Telephonkabel

AUSTRIA: ALCATEL INNOVATION FOR INTERACTIVE TV  
Die Presse (DP) 02 Mar 1995 p.19  
Language: GERMAN

...by using telecommunications lines of copper rather than fibreoptic ones. The test uses the Asymmetric **Digital Subscriber Line** (ADSL) developed by Alcatel, which allows transmission speeds of 7.5 MB per second, compared ...

... of integrated services digital networks (ISDN). Thus films can be transmitted in high quality via **telephone lines**, while the subscriber has a separate channel to the server at a speed of 384...

... subscriber's input takes place through a so-called Settop Box. The subscriber charge is **determined** according to film time. Between 500 and 1,000 households are to take part in...

24/3,K/51 (Item 1 from file: 483)  
DIALOG(R)File 483:Newspaper Abs Daily  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

06279784 SUPPLIER NUMBER: 65803291  
**MAVERIX.NET INC. IS GOING OUT OF BUSINESS**  
Shinkle, Peter  
St. Louis Post - Dispatch, p C.9  
Dec 29, 2000  
NEWSPAPER CODE: SL  
DOCUMENT TYPE: News; Newspaper article  
LANGUAGE: English RECORD TYPE: ABSTRACT

ABSTRACT: Like Phoenix, Maverix offered **digital subscriber lines**, or **DSL**, via **telephone lines**. Maverix sold its service in Midwestern cities including St. Louis, Kansas City, Milwaukee and Indianapolis...

...1999, Maverix raised \$42 million in investments, including loans from vendors. [Tom Kalishman] declined to **identify** any equity investors other than Schroder Venture Partners LLC of New York. He said Maverix has entered an agreement to recommend Covad, a **DSL** provider based in Santa Clara, Calif., to its customers. Maverix also provided Covad with information...

24/3,K/52 (Item 2 from file: 483)  
DIALOG(R)File 483:Newspaper Abs Daily  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

06254706 SUPPLIER NUMBER: 65055110  
**E-Mail Delays Plague Verizon Users; Company Blames Network Troubles on a Flood of 'Spam'**  
Goodman, Peter S  
Washington Post, p A.1  
Dec 9, 2000  
ISSN: 0190-8286 NEWSPAPER CODE: TWP  
DOCUMENT TYPE: News; Newspaper article  
LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: to completely eradicate the trouble over the weekend. The company said it had yet to **identify** the source of the spam, although it

has **determined** it originated from an Internet service provider that Verizon did not **identify** . Company officials likened the flood of spam to concerted "denial of service" attacks that have...

...have already become legion in the telecommunications world. Its high-speed service--which relies on **DSL** , or **digital subscriber line** , a technology that uses **telephone lines** --has been bedeviled by a host of installation foul-ups. For customers who have navigated " **DSL Hell**" to finally gain working links to Verizon's service, the onset of e-mail...

**24/3,K/53 (Item 3 from file: 483)**

DIALOG(R)File 483:Newspaper Abs Daily  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

05843052 SUPPLIER NUMBER: 47996308  
**The Role Of Satellites In a World That's Wired**  
Gilpin, Kenneth N  
New York Times, p 10  
Jan 16, 2000  
ISSN: 0362-4331 NEWSPAPER CODE: NY  
DOCUMENT TYPE: Interview; Newspaper article  
LANGUAGE: English RECORD TYPE: ABSTRACT

ABSTRACT: Cable pipes and **telephone lines** are widely seen as the speediest access lines linking homes and the Internet. That sort...

...that AOL made that investment because, so far, talk about two-way cable modems and **digital subscriber lines** has been mostly just that. Have you asked your local cable or telephone company lately...

...the units, but we don't know by how much. Monthly pricing hasn't been **determined** , but it will likely be competitive with similar two-way cable service.

**24/3,K/54 (Item 4 from file: 483)**

DIALOG(R)File 483:Newspaper Abs Daily  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

05842716 SUPPLIER NUMBER: 47853554  
**3 Rules of D.S.L.:** Location , Location , **Confusion**  
Hafner, Katie  
New York Times, p 1  
Jan 13, 2000  
ISSN: 0362-4331 NEWSPAPER CODE: NY  
; Newspaper article  
LANGUAGE: English RECORD TYPE: ABSTRACT

**3 Rules of D.S.L.:** Location , Location , **Confusion**

...ABSTRACT: are in the middle of one in Los Angeles. D.S.L., which stands for **digital subscriber line** , delivers fast Internet connections to homes and businesses over ordinary **telephone lines** . It first came on the market in a big way early last year, competing with...

**24/3,K/55 (Item 5 from file: 483)**

DIALOG(R)File 483:Newspaper Abs Daily  
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05817905 SUPPLIER NUMBER: 47448678

**Promises of Fast Internet Come Down To the Wires; Impatient DSL Customers Find Connections Stalled**

Goodman, Peter S

Washington Post, p A01

Dec 24, 1999

ISSN: 0190-8286 NEWSPAPER CODE: WP

DOCUMENT TYPE: NEWS ; Newspaper article

LANGUAGE: English RECORD TYPE: ABSTRACT

**Promises of Fast Internet Come Down To the Wires; Impatient DSL Customers Find Connections Stalled**

...ABSTRACT: in the Washington-Baltimore region, Covad succeeded in completing only 188 of its 415 scheduled DSL installations, according to company data. Covad says its troubles are predictable for a new business...

...unusual relationship that prevails in its industry: Local telephone companies such as Bell Atlantic sell DSL themselves. Thus, while the **telephone line** is the one thing a DSL provider cannot exist without, its lone supplier is also its biggest competitor. Covad, a national...  
...tag the wires inside the phone closet, making it impossible for Covad's technicians to **locate** them. Covad claims Bell Atlantic routinely arrives hours late for meetings scheduled to fix troubles...

24/3,K/56 (Item 6 from file: 483)  
DIALOG(R)File 483:Newspaper Abs Daily  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

05071277

**Bell Atlantic to Offer High-Speed Links to Net**

Mills, Mike

Washington Post, Sec E, p 3, col 3

Jun 4, 1998

ISSN: 0190-8286 NEWSPAPER CODE: WP

DOCUMENT TYPE: News; Newspaper

LANGUAGE: English RECORD TYPE: ABSTRACT

LENGTH: Medium (6-18 col inches)

...ABSTRACT: will offer speeds 250 times as fast as typical desktop computer modems over existing copper **telephone lines** using ADSL (asymmetric **digital subscriber line**) technology. When used with a standard modem, regular **telephone lines** typically transfer data at 28.8 kilobits per second. In Virginia, the first areas to...

...will include Arlington, Falls Church, Alexandria, Merrifield, Annandale, and Bell Atlantic's current ADSL trial **locations** in McLean, Vienna, Fairfax and Springfield.

?

File 9:Business & Industry(R) Jul/1994-2004/Mar 02  
     (c) 2004 Resp. DB Svcs.  
 File 15:ABI/Inform(R) 1971-2004/Mar 02  
     (c) 2004 ProQuest Info&Learning  
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     (c) 2004 The Gale Group  
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     (c) 2004 The Dialog Corp.  
 File 47:Gale Group Magazine DB(TM) 1959-2004/Mar 03  
     (c) 2004 The Gale group  
 File 75:TGG Management Contents(R) 86-2004/Feb W4  
     (c) 2004 The Gale Group  
 File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Mar 03  
     (c) 2004 The Gale Group  
 File 88:Gale Group Business A.R.T.S. 1976-2004/Mar 03  
     (c) 2004 The Gale Group  
 File 98:General Sci Abs/Full-Text 1984-2004/Jan  
     (c) 2004 The HW Wilson Co.  
 File 112:UBM Industry News 1998-2004/Jan 27  
     (c) 2004 United Business Media  
 File 141:Readers Guide 1983-2004/Jan  
     (c) 2004 The HW Wilson Co  
 File 148:Gale Group Trade & Industry DB 1976-2004/Mar 03  
     (c)2004 The Gale Group  
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     (c) 1999 The Gale Group  
 File 275:Gale Group Computer DB(TM) 1983-2004/Mar 03  
     (c) 2004 The Gale Group  
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     (c) 2004 The Dialog Corp.  
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     (c) 2004 ProQuest  
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     (c) 2004 The HW Wilson Co  
 File 570:Gale Group MARS(R) 1984-2004/Mar 03  
     (c) 2004 The Gale Group  
 File 608:KR/T Bus.News. 1992-2004/Mar 03  
     (c)2004 Knight Ridder/Tribune Bus News  
 File 620:EIU:Viewswire 2004/Mar 02  
     (c) 2004 Economist Intelligence Unit  
 File 613:PR Newswire 1999-2004/Mar 03  
     (c) 2004 PR Newswire Association Inc  
 File 621:Gale Group New Prod.Annou.(R) 1985-2004/Mar 02  
     (c) 2004 The Gale Group  
 File 623:Business Week 1985-2004/Mar 01  
     (c) 2004 The McGraw-Hill Companies Inc  
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     (c) 2004 McGraw-Hill Co. Inc  
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     (c) 2004 San Jose Mercury News  
 File 635:Business Dateline(R) 1985-2004/Mar 02  
     (c) 2004 ProQuest Info&Learning  
 File 636:Gale Group Newsletter DB(TM) 1987-2004/Mar 03  
     (c) 2004 The Gale Group  
 File 647:CMP Computer Fulltext 1988-2004/Feb W4  
     (c) 2004 CMP Media, LLC  
 File 696:DIALOG Telecom. Newsletters 1995-2004/Mar 02  
     (c) 2004 The Dialog Corp.  
 File 674:Computer News Fulltext 1989-2004/Feb W4  
     (c) 2004 IDG Communications  
 File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	288374	DSL OR DIGITAL()SUBSCRIBER()LINE? OR XDSL
S2	2822	S1(3N)CARD??
S3	330087	POTS OR PLAIN()OLD()TELEPHONE? OR TELEPHONE(3N)LINE?
S4	1533	S3(3N)CARD??
S5	2871	(DETECT? OR DETERMIN? OR LOCAT? OR IDENTIF?) (3N)S1
S6	6366	(CONFIG ? OR RECONFIG? OR SETUP OR SETTING()UP OR IMPLEMEN- T?) (5N)PARAMETER??
S7	2842	MEASUR? (3N) IMPEDANCE?
S8	8	PROCESS?(3N)VOICE()BAND()SIGNAL?
S9	14	AU=(NORDIN, R? OR POSTHUMA, C? OR NORDIN R? OR POSTHUMA C?)
S10	142	SUBSCRIBER()LINE()CARD??
S11	0	S10(S)S5
S12	0	S5(S)S7
S13	0	S2(S)S4(S)S7
S14	0	S2(S)S4(S)S10
S15	0	S1 AND S9
S16	72	S2(S)S4
S17	0	S16(S)S6
S18	2	S16(S) (DETECT? OR DETERMIN? OR LOCAT? OR IDENTIF?)
S19	1	RD S18 (unique items)



19/3,K/1 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

11255021 SUPPLIER NUMBER: 55412161 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Voice choices multiply at network edge.(Voice 2000)(Convergence - How Does  
Your Garden Grow?)(voice technologies)

Borthick, Sandra L.

Business Communications Review, 99, 7, S10(5)

July, 1999

ISSN: 0162-3885 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3349 LINE COUNT: 00280

... and GR-303) and NEBS Level 3 are also supported. A starter configuration, with a DSL card (16 SDSIs), POTS card (32 lines) and four T1 interfaces (for transport) is less than \$20,000. The web-based management system will cost extra (how much has yet to be determined), and provisions services, creates service level agreements (SLAs), collects billing information and supports controlled end...  
?

File 344:Chinese Patents Abs Aug 1985-2003/Nov  
(c) 2003 European Patent Office  
File 347:JAPIO Oct 1976-2003/Oct(Updated 040202)  
(c) 2004 JPO & JAPIO  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200414  
(c) 2004 Thomson Derwent

Set	Items	Description
S1	2911	DSL OR DIGITAL()SUBSCRIBER()LINE? OR XDSL
S2	162	S1 AND CARD??
S3	39455	POTS OR PLAIN()OLD()TELEPHONE? OR TELEPHONE(3N)LINE?
S4	1219	S3 AND CARD??
S5	914	(DETECT? OR DETERMIN? OR LOCAT? OR IDENTIF?) AND S1
S6	5852	(CONFIG ? OR RECONFIG? OR SETUP OR SETTING()UP OR IMPLEMEN- T?) AND PARAMETER??
S7	15341	MEASUR? AND IMPEDANCE?
S8	56	PROCESS? AND VOICE()BAND()SIGNAL?
S9	56	AU=(NORDIN, R? OR POSTHUMA, C? OR NORDIN R? OR POSTHUMA C?)
S10	2	S5 AND S3 AND S7
S11	11	SUBSCRIBER()LINE()CARD??
S12	1	S11 AND S5
S13	1	S12 NOT S10
S14	9	S5 AND S6
S15	9	S14 NOT (S12 OR S10)
S16	57	S2 AND S4
S17	11	S16 AND (DETECT? OR DETERMIN? OR IDENTIF?)
S18	11	S17 NOT (S14 OR S12 OR S10)
S19	21	S9 AND S1
S20	13	S19 AND S3
S21	0	S20 AND S7
S22	262898	IC=H04M?
S23	12	S20 AND S22
S24	11	S23 NOT (S17 OR S14 OR S12 OR S10)
S25	1	S24 AND AD=20020131:20040303/PR
S26	10	S24 NOT S25
S27	10	IDPAT (sorted in duplicate/non-duplicate order)
S28	6	IDPAT (primary/non-duplicate records only)

10/3,K/1 (Item 1 from file: 350)  
DIALCG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015904796 \*\*Image available\*\*  
WPI Acc No: 2004-062636/200406  
XRPX Acc No: N04-050614

DSL twisted pair qualification test uses sinusoidal test over frequency range with analysis of second derivative of input impedance for sign changes

Patent Assignee: INFINEON TECHNOLOGIES AG (INFN )

Inventor: KRAMER R

Number of Countries: 029 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 2003107640	A1	20031224	WO 2003EP6133	A	20030611	200406 B
DE 10226759	A1	20040115	DE 1026759	A	20020614	200413

Priority Applications (No Type Date): DE 1026759 A 20020614

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 2003107640	A1	G	38	H04M-003/30	
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Designated States (National): CN KR US

Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR

HU IE IT LU MC NL PT RO SE SI SK TR

DE 10226759	A1			H04M-001/24	
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DSL twisted pair qualification test uses sinusoidal test over frequency range with analysis of second derivative of input impedance for sign changes

Abstract (Basic):

... A DSL ( Digital Subscriber Line ) twisted pair qualification test method uses a modem with sinusoidal signal to measure the impedance versus frequency and evaluates (95) the second derivative (94) for sign changes that indicate the...

... DSL ( Digital Subscriber Line ) qualification test for existing twisted pair lines...

...Allows the detection of load coils fitted to existing telephone lines .

...

...Load coils detected (96...

...Load coils not detected (97

...Title Terms: IMPEDANCE ;

10/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015029112 \*\*Image available\*\*  
WPI Acc No: 2003-089629/200308  
XRPX Acc No: N03-070661

Data transmission capacity estimation system for digital subscriber line local loop, uses real portion of measured input impedance of local loop to estimate capacity

Patent Assignee: BELL SOUTH INTELLECTUAL PROPERTY CORP (BELL-N)

Inventor: TENNYSON G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6466647	B1	20021015	US 99441466	A	19991117	200308 B

Priority Applications (No Type Date): US 99441466 A 19991117

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6466647	B1	17	H04M-001/24	

**Data transmission capacity estimation system for digital subscriber line local loop, uses real portion of measured input impedance of local loop to estimate capacity**

Abstract (Basic):

... Each entry in a table contains a potential value of input **impedance** and a corresponding data transmission capacity value. A computer (712) estimates the data transmission capacity value of the **DSL** local loop from the table entries using the real portion of the **measured** input **impedance** of the local loop.

... 4) Method for **determining** whether subscriber loop supports broadband service...

...For **determining** the data transmission capacity of a **digital subscriber line (DSL)** local loop in **plain old telephone** system ( **POTS** ).

...can be estimated easily, rapidly and efficiently by using the real portion of the input **impedance** of **DSL** loop

...Title Terms: **MEASURE** ;

?

13/3,K/1 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015703791 \*\*Image available\*\*  
WPI Acc No: 2003-765984/200372  
XRPX Acc No: N03-613526

Communication system for managing network elements e.g. digital  
subscriber line cards , has element management system that provides  
information regarding network element required by client

Patent Assignee: ADTRAN INC (ADTR-N)  
Inventor: BAILEY S A; DARZI K E; MILLER R L  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030149754	A1	20030807	US 200268313	A	20020206	200372 B

Priority Applications (No Type Date): US 200268313 A 20020206

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030149754	A1	16	G06F-015/173	

Communication system for managing network elements e.g. digital  
subscriber line cards , has element management system that provides  
information regarding network element required by client

Abstract (Basic):

... An element management system (EMS) interfacing between the  
clients and network elements, **determines** the network elements  
required by the client. The EMS monitors the **determined** network  
element and provides the information regarding the monitored network  
element to the clients.

... Communication system including element management system (EMS)  
(claimed) for managing network elements such as **digital subscriber  
line (DSL)** cards, asynchronous transfer mode (ATM) cards, inverse  
multiplexing for ATM (IMA) cards and asynchronous **digital subscriber  
line (ADSL)** cards residing in communication network such as public  
switched telephone network (PSTN) and internet...

?

15/3,K/1 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015505851 \*\*Image available\*\*

WPI Acc No: 2003-567998/200353

Related WPI Acc No: 2003-635587; 2003-720258; 2003-731634

XRPX Acc No: N03-451629

Data transmission improvement method for discrete multi-tone modulated asymmetric digital subscriber system, involves comparing line conditions to specific parameters and correlating parameters to predefined mask  
Patent Assignee: DUVAUT P (DUVA-I); LANGBERG E (LANG-I); GLOBESPAN VIRATA INC (GLOB-N)

Inventor: DUVAUT P; LANGBERG E; MORENO O; PIERRUGUES L; SCHOLTZ W

Number of Countries: 101 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030108035	A1	20030612	US 2001338939	P	20011210	200353 B
			US 2001341654	P	20011217	
			US 2002346809	P	20020107	
			US 2002348575	P	20020114	
			US 2002350552	P	20020122	
			US 2002353880	P	20020202	
			US 2002354888	P	20020206	
			US 2002355117	P	20020208	
			US 2002316081	A	20021210	
WO 200350653	A2	20030619	WO 2002US39446	A	20021210	200353
WO 200350991	A2	20030619	WO 2002US39406	A	20021210	200353
WO 200355162	A1	20030703	WO 2002US39460	A	20021210	200354

Priority Applications (No Type Date): US 2002316081 A 20021210; US 2001338939 P 20011210; US 2001341654 P 20011217; US 2002346809 P 20020107; US 2002348575 P 20020114; US 2002350552 P 20020122; US 2002353880 P 20020202; US 2002354888 P 20020206; US 2002355117 P 20020208

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030108035	A1		37	H04L-012/66	Provisional application US 2001338939

Provisional application US 2001341654  
Provisional application US 2002346809  
Provisional application US 2002348575  
Provisional application US 2002350552  
Provisional application US 2002353880  
Provisional application US 2002354888  
Provisional application US 2002355117

WO 200350653 A2 E G06F-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

WO 200350991 A2 E H04L-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB

GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM  
ZW  
WO 200355162 A1 E H04L-027/12  
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ  
OM PH PL PT RO RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA  
ZM ZW  
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB  
GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM  
ZW

... for discrete multi- tone modulated asymmetric digital subscriber  
system, involves comparing line conditions to specific parameters and  
correlating parameters to predefined mask

Abstract (Basic):

... noise ratio, line attenuation, information related to usable  
sub- carriers and concurrently-deployed services, are **determined** from  
the received signal. The line conditions are compared with specific  
**parameters** , and the **parameters** are correlated with predefined mask  
(350) such as time-frequency mask (354).

... For improving data transmission in discrete multi- tone (DMT)  
modulated asymmetric **digital subscriber line** (ADSL) system  
**implemented** between central office having transmission control  
protocol/internet protocol (TCP/IP) routers and asynchronous transfer

...Title Terms: **PARAMETER** ;

15/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015371425 \*\*Image available\*\*  
WPI Acc No: 2003-432363/200341  
XRPX Acc No: N03-345138

**Network modeling method for measuring crosstalk in xDSL networks by  
first determining topology based on model and measured loop parameters**

Patent Assignee: ALCATEL (COGE )  
Inventor: BOSTOEN T; POLLET T  
Number of Countries: 028 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1300964	A1	20030409	EP 2001402558	A	20011003	200341 B
US 20030099350	A1	20030529	US 2002261486	A	20021002	200342
CN 1427551	A	20030702	CN 2002139968	A	20021008	200361

Priority Applications (No Type Date): EP 2001402558 A 20011003

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 1300964	A1	E 32	H04B-003/46	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR				
US 20030099350	A1		H04M-007/00	
CN 1427551	A		H04B-003/46	

**Network modeling method for measuring crosstalk in xDSL networks by  
first determining topology based on model and measured loop parameters**

Abstract (Basic):

... Involves measuring loop **parameters** of a transmission line and **determining** the topology of the transmission line by analysing the measured **parameters**. The analysis is carried out with reference to a particular model selected from several models for transmission lines of different topologies. A further model is selected to estimate crosstalk related **parameters** based on the **determined** topology.

... For measuring crosstalk in **xDSL** networks...

...The drawing shows a block diagram of the system used to **implement** the method...

...Title Terms: **DETERMINE** ;

15/3,K/3 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015068506 \*\*Image available\*\*  
WPI Acc No: 2003-129022/200312  
XRPX Acc No: N03-102586

**Communication** reconfiguration information sharing for asymmetrical digital subscriber line **communication system**, involves receiving **ack/comply signal** for reconfiguration transceive parameters implementation **based on timing information**

Patent Assignee: WUNSCH G (WUNS-I)

Inventor: WUNSCH G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020172188	A1	20021121	US 2001291992	P	20010519	200312 B
			US 200134145	A	20011228	

Priority Applications (No Type Date): US 2001291992 P 20010519; US 200134145 A 20011228

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20020172188 A1 16 H04L-012/28 Provisional application US 2001291992

**Communication** reconfiguration information sharing for asymmetrical digital subscriber line **communication system**, involves receiving **ack/comply signal** for reconfiguration transceive parameters implementation **based on timing information**

Abstract (Basic):

... The **reconfiguration** transceive **parameters** indicating **reconfiguration** of a data communication channel and ack/comply timing information indicating at which an ack/comply is expected, are **determined** and transmitted over an OAM channel (430). A physical media dependent ack/comply signal indicating whether **reconfiguration** transceive **parameters** to be **implemented**, is received based on the ack/comply timing information.

... For sharing communication **reconfiguration** information in asymmetrical **digital subscriber line** (ADSL) communication system and other bidirectional communication system such as cable modem or wireless system...

...As the signal for **reconfiguration** transceive **parameters** **implementation** is received based on ack/comply timing information, the



receiver efficiently tailor the allowed for...  
...Title Terms: **RECONFIGURE** ;

15/3,K/4 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015060504 \*\*Image available\*\*  
WPI Acc No: 2003-121020/200311  
Related WPI Acc No: 2003-059773; 2003-103832; 2003-148848; 2003-596839;  
2003-709128  
XRPX Acc No: N03-096304  
Comfort noise generating method, for improving voice signals transmitted  
over DSL or IP networks, includes using an algorithm that adapts with  
time when silence segment is detected  
Patent Assignee: NAYAK V S (NAYA-I); RANDMAA M (RAND-I); WONG D (WONG-I);  
GLOBESPAN VIRATA INC (GLOB-N)  
Inventor: NAYAK V S; RANDMAA M; WONG D  
Number of Countries: 099 Number of Patents: 002  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
WO 2002101722 A1 20021219 WO 2002US18535 A 20020612 200311 B  
US 20030120484 A1 20030626 US 2001297265 P 20010612 200343  
US 2001305157 P 20010716  
US 200234120 A 20020103

Priority Applications (No Type Date): US 2001305157 P 20010716; US  
2001297265 P 20010612; US 200234120 A 20020103

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
WO 2002101722 A1 E 37 G10L-019/00  
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ  
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM  
ZW  
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW  
US 20030120484 A1 G10L-011/06 Provisional application US 2001297265

Provisional application US 2001305157

Comfort noise generating method, for improving voice signals transmitted  
over DSL or IP networks, includes using an algorithm that adapts with  
time when silence segment is detected

Abstract (Basic):

... If near-end speech activity is **detected** (112) in input data  
(110), encoding occurs (114) and codeword data is sent (116) to a  
channel to be transmitted to a decoder. If near-end speech activity is  
not **detected**, comfort noise generator adaptation occurs (118) using  
an algorithm to approximate the spectrum of an input noise using a  
least mean square (LMS) function and, after filter **parameter** encoding  
(120), silence insertion descriptors (SID) are sent to the channel.  
... An INDEPENDENT CLAIM is also included for a comfort noise  
generating system including an **identifier** for **identifying** silence  
packets in speech data, an adaptation algorithm that adapts with time,  
and a **detector** for **determining** a start of a silence segment. A  
comfort noise generator generates comfort noise by the...

...The comfort noise generating method is used for improving voice signals transmitted over **digital subscriber lines** or via internet protocol networks...

...The figure shows a flowchart illustrating an encoder **implementing** a comfort noise generating method...

...Title Terms: **DETECT**

15/3,K/5 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014771971 \*\*Image available\*\*  
WPI Acc No: 2002-592677/200264  
XRPX Acc No: N02-470329

**Host connectivity providing method in internet, involves triggering network access server to establish connection with web server, by using connection parameters when event directed to web server is detected**

Patent Assignee: ALCATEL (COGE )

Inventor: CHANTRAIN D; HANDEKYN K; MARLY N

Number of Countries: 027 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1227619	A1	20020731	EP 2001440019	A	20010130	200264 B
US 20020103803	A1	20020801	US 200241464	A	20020110	200264

Priority Applications (No Type Date): EP 2001440019 A 20010130

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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EP 1227619	A1	E 12	H04L-012/28	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

US 20020103803	A1	G06F-007/00
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... **internet, involves triggering network access server to establish connection with web server, by using connection parameters when event directed to web server is detected**

Abstract (Basic):

... The connection **parameters** of a web server (22) is stored in a database accessible by network access server...

...server is triggered to establish a connection with the web server by using the connection **parameters** , upon occurrence of one of events.

... such as public switched telephone network (PSTN) or integrated services digital network (ISDN) supporting asymmetric **digital subscriber line** , and local multipoint distribution services (LMDS) in data communication networks such as internet, virtual private...

...server is connected to network access server when the events to the web server is **detected** , the access network operator avoids the long lasting but idle connections and hence the use...

...resources is optimized. The modification of physical connection is not needed, as the method is **implemented** in a software form independent of the type of access network between the end user...

...Title Terms: **PARAMETER** ;

15/3,K/6 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014385341 \*\*Image available\*\*  
WPI Acc No: 2002-206044/200226  
XRPX Acc No: N02-156926

**Device for transmission/reception of digital data with variable flow rate, in particular in very high rate digital subscriber line (VDSL) systems**

Patent Assignee: STMICROELECTRONICS (SGSA ); STMICROELECTRONICS SA (SGSA ); CAME H (CAME-I); MAZZONI S (MAZZ-I)

Inventor: CAME H; MAZZONI S

Number of Countries: 028 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200207324	A1	20020124	WO 2001FR2243	A	20010711	200226 B
FR 2812150	A1	20020125	FR 20009409	A	20000718	200226
US 20030021338	A1	20030130	WO 2001FR2243	A	20010711	200311
			US 200288387	A	20020716	
EP 1301996	A1	20030416	EP 2001955402	A	20010711	200328
			WO 2001FR2243	A	20010711	
JP 2004504754	W	20040212	WO 2001FR2243	A	20010711	200413
			JP 2002513104	A	20010711	

Priority Applications (No Type Date): FR 20009409 A 20000718

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200207324 A1 F 30 H03M-013/27

Designated States (National): JP US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE TR

FR 2812150 A1 H04L-025/49

US 20030021338 A1 H04B-001/38

EP 1301996 A1 F H03M-013/27 Based on patent WO 200207324

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

JP 2004504754 W 44 H03M-013/27 Based on patent WO 200207324

... **transmission/reception of digital data with variable flow rate, in particular in very high rate digital subscriber line (VDSL) systems**

Abstract (Basic):

... operated by the device. The interleaving and deinterleaving means comprise addressing means (MAD1,MAD2) receiving **parameters** (I,M;I',M'), respectively.

... coding/decoding of Reed-Solomon length N type, so that the interleaving means (MET) block **implements** a convolutive interleaving with I branches of i-1 blocks of M octets, and analogously the deinterleaving means (MDET) block **implements** a convolutive deinterleaving with I' branches of i'-1 blocks of M' octets, where I...

...in teh memory on the basis of contents of the first counter, and means for **determining** address in successive read/write operations on the basis of information received from the intermediate...

...in transmission and reception, and the means for interleaving and deinterleaving can be shared as **reconfigurable** according to the actual rate of data flow. The device can handle different rates in...

15/3,K/7 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

013958681 \*\*Image available\*\*  
WPI Acc No: 2001-442895/200148  
XRPX Acc No: N01-327568

Transmission errors handling procedure esp. for ADSL-, and UDSL-, data transmission method e.g. with analog telephone and computer terminals - involves continual monitoring of data transmission for determining transmission errors, and measurement of bit-error rates for detecting any exceeding of threshold-amount prior to adaption procedure

Patent Assignee: SIEMENS AG (SIEI )

Inventor: AHRNDT T

Number of Countries: 004 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 10001150	A1	20010719	DE 1001150	A	20000113	200148 B
WO 200152463	A1	20010719	WO 2000DE4094	A	20001121	200148

Priority Applications (No Type Date): DE 1001150 A 20000113

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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DE 10001150	A1	7	H04L-001/20	
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WO 200152463	A1 G		H04L-001/00	
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Designated States (National): CA CN US

... involves continual monitoring of data transmission for determining transmission errors, and measurement of bit-error rates for detecting any exceeding of threshold-amount prior to adaption procedure

...Abstract (Basic): card' or SLMI (subscriber line module internet)(3a...3m) in a switching centre (2). During setting up the link for data transmission, the line properties are ascertained and the data transmission rate is matched/adapted to the detected line properties...

...USE - Adaptive matching of data transmission parameter during xDSL (x digital subscriber line ) transmission procedure in order to reduce transmission errors...

...Title Terms: DETERMINE ;

15/3,K/8 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

013359510 \*\*Image available\*\*  
WPI Acc No: 2000-531449/200048  
XRPX Acc No: N00-392901

Safety system for XDSL communication system, comprises control sub-units in exchange and remote subscriber units which exchange current parameters via tip and ring wires

Patent Assignee: TADIRAN TELECOM LTD (TADI-N)

Inventor: NATRA G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6091338	A	20000718	US 99246356	A	19990208	200048 B

Priority Applications (No Type Date): US 99246356 A 19990208

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
US 6091338 A 7 G08B-021/00

**Safety system for XDSL communication system, comprises control sub-units in exchange and remote subscriber units which exchange current parameters via tip and ring wires**

Abstract (Basic):

... The system (50) comprises current **detectors** (7,3) in exchange unit (10) and remote subscriber unit (5), respectively. Control sub-units (6,2) in the exchange and remote units receive current measurements from corresponding current **detectors**. The control sub-units manage communication protocol between exchange and remote units, to exchange current **parameters** via tip and ring wires (12,13).  
... operates corrective action, based on the exchanged information. The corrective action includes shutting down the **XDSL** system and limiting a current in wires to a fixed value of about 25MA. An INDEPENDENT CLAIM is also included for safety protection method in **XDSL** communication system...

...For electrical protection of users of **XDSL** communication system...

...By using safety system in **XDSL** communication system, it resolves most typical hazardous operational conditions related to protecting the safety of...

...the system wires. By limiting the current not to exceed 25MA, the system enables exchanged **XDSL** communication system safety. It is simpler to **implement** and corrective measure is carried out if the voltage difference exceeds a predetermined value...

...Current **detectors** (3,7...

...Title Terms: **PARAMETER** ;

15/3,K/9 (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

013328152 \*\*Image available\*\*

WPI Acc No: 2000-500091/200045

XRPX Acc No: N00-370695

**A digital subscriber line communications method for high speed data transmission over various networks comprises continuously monitoring a channel to adjust bandwidth allocation and/or symmetry as required**

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE )

Inventor: ARA VAMUDAN M; NETRA VALI A N; SZURKOWSKI E S; ARAVAMUDAN M;  
NARAYAN NETRAVALI A

Number of Countries: 029 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1009135	A2	20000614	EP 99309588	A	19991130	200045 B
JP 2000184061	A	20000630	JP 99348004	A	19991207	200045
CA 2287685	A1	20000607	CA 2287685	A	19991028	200047
KR 2000075429	A	20001215	KR 9955087	A	19991206	200131
TW 444468	A	20010701	TW 99118967	A	19991101	200220

Priority Applications (No Type Date): US 98206423 A 19981207

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1009135 A2 E 17 H04L-012/64

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI

JP 2000184061 A 15 H04M-003/00

CA 2287685 A1 E H04M-011/06

KR 2000075429 A H04L-012/28

TW 444468 A H04L-012/64

**A digital subscriber line communications method for high speed data transmission over various networks comprises continuously monitoring a channel...**

Abstract (Basic):

... A communications channel is continuously monitored (410) to **determine** the real-time bandwidth allocation and symmetry requirements between a subscriber and service provider. If a **parameter** change request is received (420), the bandwidth allocation and/or symmetry are dynamically adjusted (440). If no change request is received the channel is continuously monitored to **detect** a change in requirements across the channel (430) and these adjustments are made.

... a) a **digital subscriber line (DSL)** transceiver...

...c) and a machine-readable medium having stored instructions to **implement** a **DSL** communications method...

...The **digital subscriber line** communications method is used for high speed data transmission over various networks...

...Both symmetric and asymmetric high speed **DSL** applications are satisfied across the same communications channel...

?

18/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015749686 \*\*Image available\*\*  
WPI Acc No: 2003-811887/200376  
XRPX Acc No: N03-650074

Switchable plain old telephone service splitter in central office,  
has low pass filter with capacitor and capacitor switch that operate  
synchronously with switches to input ringing signal to destination  
Patent Assignee: CALDERA P (CALD-I); HAEUSLER R (HAEU-I)  
Inventor: CALDERA P; HAEUSLER R  
Number of Countries: 001 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
US 20030194066 A1 20031016 US 2002122164 A 20020412 200376 B

Priority Applications (No Type Date): US 2002122164 A 20020412  
Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
US 20030194066 A1 7 H04M-011/00

Switchable plain old telephone service splitter in central office,  
has low pass filter with capacitor and capacitor switch that...

Abstract (Basic):

... A CODEC circuit detects the incoming call based on which the  
switches (S11,S21) are closed. A low pass filter of POTS splitter has  
a capacitor and capacitor switch that operates synchronously with the  
switches (S11,S21...  
... Plain old telephone service ( POTS ) splitter used with  
asymmetric digital subscriber line ( DSL ), rate adaptive DSL  
(RADSL), symmetric DSL (SDSL) and very high speed DSL (VDSL)  
architecture in central office for separating voice and data signal...  
...The figure shows the block diagram of the central office line card .

18/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015748527 \*\*Image available\*\*  
WPI Acc No: 2003-810728/200376  
Related WPI Acc No: 2003-209929; 2003-456218  
XRPX Acc No: N03-649148

Dual system control card supporting apparatus in telecommunication  
switching system, enables telecommunication switching system to select  
one of the control cards , based on operation status signal of each  
card  
Patent Assignee: BROCCO M (BROC-I); FILTNESS A (FILT-I); JOTWANI H (JOTW-I)  
Inventor: BROCCO M; FILTNESS A; JOTWANI H  
Number of Countries: 001 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
US 20020196805 A1 20021226 US 2001294201 P 20010530 200376 B  
US 2002159205 A 20020530

Priority Applications (No Type Date): US 2001294201 P 20010530; US

2002159205 A 20020530

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
US 20020196805 A1 10 H04J-003/02 Provisional application US 2001294201

**Dual system control card supporting apparatus in telecommunication switching system, enables telecommunication switching system to select one of the control cards , based on operation status signal of each card**

Abstract (Basic):

... The signaling units transmit operation status signals of each of the system control **cards** (IAC-A,IAC-B) (110,112) to system control panel (SCP) (120). An arbitration circuit...

...which a microprocessor subsystem enables telecommunication switching system (100) to select any one of the **cards** .

... An INDEPENDENT CLAIM is also included for method of supporting system control **cards** on common backplane of telecommunication switching system...

...For supporting redundant system control **cards** such as integrated access controller (IAC) **card** , assorted circuit **cards** such as **plain old telephone system ( POTS ) 32 line cards** and asymmetric **digital subscriber line (ADSL) 12 line cards** .

... Prevents unnecessary switching of control and provides safe and simple process to **determine** which of the multiple redundant controllers should be currently used. Thus avoids unstable system states...

...line **cards** (118,124

...Title Terms: **CARD** ;

**18/3,K/3 (Item 3 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

015648240 \*\*Image available\*\*

WPI Acc No: 2003-710423/200367

XRPX Acc No: N03-568005

**Plain old telephone service line card , has digital signal processor processing voice-band signals with parameters if digital subscriber line (old telephone card is connected or not connected to subscriber line**

Patent Assignee: NORDIN R A (NORD-I); POSTHUMA C R (POST-I)

Inventor: NORDIN R A; POSTHUMA C R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030142815	A1	20030731	US 200262686	A	20020131	200367 B

Priority Applications (No Type Date): US 200262686 A 20020131

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
US 20030142815 A1 10 H04M-001/00

**Plain old telephone service line card , has digital signal processor processing voice-band signals with parameters if digital subscriber line (old telephone card is connected or not connected to subscriber line**



Abstract (Basic):

... The card (19) has a detection unit that detects whether a digital subscriber line (DSL) is connected to a subscriber line. A digital signal processor (16) responds to the detection unit to process voice-band signals with a parameter set if the DSL line is connected to the subscriber line. The processor processes the signals with another parameter set if the DSL line is not connected to the subscriber line.

... An INDEPENDENT CLAIM is also included for a method for use in a DSL-compatible plain old telephone service line card connected to a subscriber line...

...The card can meet the LSSGR (LATA switching system Generic requirements), when it is both connected and disconnected in a circuit with a digital subscriber line (DSL) card.

...

...The drawing shows a block diagram of a plain old telephone service (POTS) line card connected to a customer premises telephone...

... Digital subscriber line compatible Plain old telephone service line card (10

...Title Terms: CARD ;

18/3,K/4 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015492397 \*\*Image available\*\*  
WPI Acc No: 2003-554544/200352  
XRPX Acc No: N03-440341

Communication device e.g. modem, adjusts transmission power of transceiver when OFF-hook state of plain old telephone system is determined based on transmission characteristics of wire line pair

Patent Assignee: TEXAS INSTR INC (TEXI )  
Inventor: IBRAHIM Y; PAYNE R E; POLLEY M O  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6563864	B1	20030513	US 9873613	P	19980204	200352 B
			US 98216082	A	19981218	

Priority Applications (No Type Date): US 9873613 P 19980204; US 98216082 A 19981218

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6563864	B1	15	H04B-001/38	Provisional application US 9873613

Communication device e.g. modem, adjusts transmission power of transceiver when OFF-hook state of plain old telephone system is determined based on transmission characteristics of wire line pair

Abstract (Basic):

... 212) of transceiver, analyzes transmission characteristics of line pair during ON/OFF hook states of plain old telephone system (POTS). A control unit (310) adjusts transmission power of transceiver when OFF-hook state of POTS is determined from transmission characteristics.

... 1) digital subscriber line (DSL) modem...

...2) method of simultaneously operating DSL line modem and voice band device; and...

...3) method of training DSL modem to operate simultaneously over same connection as voice band device...

...Communication device e.g. DSL modem (claimed), router, line cards and digital loop carrier system implementing DSL communication protocols including asymmetric DSL (ADSL), symmetric DSL (SDSL), high bit rate DSL (HDSL), very high rate DSL (VDSL...

...Avoids the effects of non-linearities produced as the plain old telephone system ( POTS ) transitions between ON and OFF-hook states, by suitably adjusting the transmission power of the...

...Permits concurrent and simultaneous use of same wire line pair for both voice band and DSL communication...

...The figure shows the block diagram of DSL modem...

...ON/OFF detector (300...

...Title Terms: DETERMINE ;

18/3,K/5 (Item 5 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2004 Thomson Derwent. All rts. reserv.

015441946 \*\*Image available\*\*  
 WPI Acc No: 2003-504088/200347  
 XRPX Acc No: N03-400246

Integrated plain old telephone system and digital subscriber loop line card has high pass filter coupled with impedance generator, to filter detected low frequency transients in plain old telephone system receive path

Patent Assignee: CATENA NETWORKS CANADA INC (CATE-N); CATENA NETWORKS INC (CATE-N)

Inventor: DZIAWA M; MCCLENNON S; MCGINN S D; TREMBLAY F

Number of Countries: 101 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030076946	A1	20030424	US 2002278755	A	20021022	200347 B
WO 200336831	A1	20030501	WO 2002US34233	A	20021024	200347
CA 2360108	A1	20030424	CA 2360108	A	20011024	200347

Priority Applications (No Type Date): CA 2360108 A 20011024

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030076946	A1		13	H04M-001/24	
WO 200336831	A1	E		H04J-001/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW  
 CA 2360108 A1 E H04B-003/02

Integrated plain old telephone system and digital subscriber loop

line card has high pass filter coupled with impedance generator, to filter detected low frequency transients in plain old telephone system receive path

Abstract (Basic):

... An impedance generator (80) coupled between a plain old telephone system ( POTS ) receive path (402) and a combined POTS /digital subscriber loop ( DSL ) transmit path (401), synthesizes impedance for signals in the combined POTS / DSL transmit path. A high pass filter (13) coupled with impedance generator, filters low frequency transients detected by a low frequency signal detector (70) in the POTS receive path.  
... An INDEPENDENT CLAIM is also included for method of suppressing low frequency transients in combined POTS / DSL line card .  
...

...Integrated plain old telephone system ( POTS ) and digital subscriber loop ( DSL ) line card in telephone network...

...Ensures realizing integrated POTS / DSL line card capable of suppressing low frequency transients. Prevents incorrect loop termination and signal degradation, thereby avoiding data loss of DSL service...

...The figure shows a block diagram of the integrated POTS / DSL line card .  
...

...low frequency signal detector (70...

...combined POTS / DSL transmit path (401...

... POTS receive path (402

...Title Terms: CARD ;

18/3,K/6 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014550952 \*\*Image available\*\*  
WPI Acc No: 2002-371655/200240  
XRPX Acc No: N02-290461

Measurement of line attenuation especially for use in determining the suitability of telephone lines for carrying ADSL signals, where testing can be carried out by a single technician

Patent Assignee: THALES (THAL-N); DASSAULT AUTOMATISMES & TELECOM (AVIO );  
LE HENAFF D (LHEN-I)

Inventor: LE HENAFF D

Number of Countries: 097 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200214882	A1	20020221	WO 2001FR2604	A	20010810	200240 B
FR 2812947	A1	20020215	FR 200010732	A	20000811	200240
AU 200187787	A	20020225	AU 200187787	A	20010810	200245
NO 200300678	A	20030402	WO 2001FR2604	A	20010810	200336
			NO 2003678	A	20030211	
EP 1322970	A1	20030702	EP 2001967401	A	20010810	200344
			WO 2001FR2604	A	20010810	
US 20030173399	A1	20030918	WO 2001FR2604	A	20010810	200362

US 2003344145 A 20030210  
ZA 200301454 A 20031126 ZA 20031454 A 20030224 200402

Priority Applications (No Type Date): FR 200010732 A 20000811

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200214882 A1 F 29 G01R-027/06

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ  
PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

FR 2812947 A1 G01R-031/02

AU 200187787 A G01R-027/06 Based on patent WO 200214882

NO 200300678 A G01R-000/00

EP 1322970 A1 F G01R-027/06 Based on patent WO 200214882

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI TR

US 20030173399 A1 G06F-017/00

ZA 200301454 A 50 G01R-000/00

**Measurement of line attenuation especially for use in determining the  
suitability of telephone lines for carrying ADSL signals, where  
testing can be carried out by a single technician**

Abstract (Basic):

... c) **determination** of the signal amplitude at the same frequency  
...

...d) **determination** of the signal attenuation from the ratio of the two  
amplitudes.

... INDEPENDENT CLAIMS are made for a device and an electronic **card**  
for measuring line attenuation at a given frequency. The invention  
also concerns a measurement test and diagnostic unit used with the  
electronic **card** .  
...

...The invention is for rating asymmetric **digital subscriber lines** .  
...

...suitable for ADSL are classed as such, so physical measurement is  
necessary to more accurately **determine** which lines are suitable.

Current methods employ two technicians, one at each end of a...

...electronic **card** (111

...Title Terms: **DETERMINE** ;

18/3,K/7 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014240489 \*\*Image available\*\*

WPI Acc No: 2002-061189/200208

XRPX Acc No: N02-045320

**Asymmetric** digital subscriber line **data service** and plain old  
telephone **service providing apparatus loads asymmetric** digital  
subscriber line **data into tone bins in determined frequency band,**  
**based on control signal**

Patent Assignee: SIEMENS INFORMATION & COMMUNICATIONS NET (SIEI )

Inventor: JENNESS R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6324212	B1	20011127	US 99249924	A	19990212	200208 B

Priority Applications (No Type Date): US 99249924 A 19990212

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6324212	B1	18	H04B-001/38	

**Asymmetric digital subscriber line data service and plain old telephone service providing apparatus loads asymmetric digital subscriber line data into tone bins in determined frequency band, based on control signal**

Abstract (Basic):

... Asymmetric **digital subscriber line** (ADSL) transceivers (12a-12n) have a Fast Fourier Transform/Inverse Fast Fourier Transform (FFT/IFFT)...

...44) to load ADSL data into tone bins above a predetermined frequency band used for **plain old telephone service ( POTS )** call, and to load ADSL data into tone bins in frequency band used for **POTS** call and for ADSL data transmissions, responsive to control signal from a control processor (14).

... An INDEPENDENT CLAIM is also included for asymmetric **digital subscriber line** data service and **plain old telephone service** implementation method...

...For providing bidirectional asymmetric **digital subscriber line** (ADSL) data service and **plain old telephone service ( POTS )** over a subscriber loop...

...Provides rapid mode switching between just ADSL service and combined ADSL and **POTS** service based on subscriber events indicating voice call initiation...

...The figure shows the block diagram of integrated line **card** for use in central office...

...Title Terms: **DETERMINE ;**

**18/3,K/8 (Item 8 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

014152440 \*\*Image available\*\*

WPI Acc No: 2001-636659/200173

**Set-top box having wake-up function by telephone**

Patent Assignee: ILOGIC INC (ILOG-N)

Inventor: AHN B S; NOH H N; PARK B J; SIM G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001044156	A	20010605	KR 200071423	A	20001128	200173 B

Priority Applications (No Type Date): KR 200071423 A 20001128

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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Abstract (Basic):

... interface(202) selectively transmits a phone signal of a phone line(201) received from a **POTS** filter to a DTMF controller(203) under the control of an auxiliary microcontroller function unit...

...the wake-up circuit(206), recognizes a phone call incoming from an external source, and **determines** a **determining** code of a password code and a reservation code received from the DTMF controller(203...

...a function of transmitting a reservation data including an Internet protocol(IP) through a LAN **card** (213) and **xDSL** modem connection signal line(214) to an ISP provider on the basis of the reservation...

18/3,K/9 (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014013044 \*\*Image available\*\*  
WPI Acc No: 2001-497258/200155  
XRPX Acc No: N01-368498

Line card for terminating telephone line in customer premises,  
has DC signal generator for indicating off-hook condition as deciphered  
by hook status determination circuit

Patent Assignee: CATENA TECHNOLOGIES CANADA INC (CATE-N); CATENA NETWORKS  
INC (CATE-N)

Inventor: BIJMAN M; MARLIN D

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2289383	A1	20010512	CA 2289383	A	19991112	200155 B
US 6590973	B1	20030708	US 2000710980	A	20001109	200353

Priority Applications (No Type Date): CA 2289383 A 19991112

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
CA 2289383	A1	E 13	H04M-003/22	
US 6590973	B1		H04N-001/00	

Line card for terminating telephone line in customer premises,  
has DC signal generator for indicating off-hook condition as deciphered  
by hook status determination circuit

Abstract (Basic):

... The line **card** consists of an interface (32) to  
transmit/receive analog signals through the **telephone line** , and a  
circuit for **determining** the duty cycle of loop current in telephone,  
to decipher the hook status. An AC...

... An INDEPENDENT CLAIM is also included for the method of  
**determination** of hook status of customer's telephone equipment...

...For terminating **telephone line** in customer premises, for **detecting**  
off-hook condition of customer's telephone equipment and to provide  
indication accordingly. Also for use with other line **cards** e.g. in  
**digital subscriber line** ( **DSL** ), such as asymmetric **DSL** (**ADSL**),  
symmetric **DSL** (**SDSL**), high-rate **DSL** (**HDSL**), very high-rate **DSL**  
(**VDSL**), also for integrated services digital network (**ISDN**), multiple  
virtual line (**MVL**), carrier less amplitude...

...The figure shows the hook status **detector** circuit schematically...  
...Title Terms: **CARD** ;

**18/3,K/10** (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

012533639 \*\*Image available\*\*  
WPI Acc No: 1999-339745/199929  
XRPX Acc No: N99-254802

**Splitter separating telephony traffic from xDSL traffic at higher frequency**  
Patent Assignee: NORTHERN TELECOM LTD (NELE ); NORTEL NETWORKS LTD (NELE )

Inventor: HUMPHREY L D; WILLIAMSON R J  
Number of Countries: 027 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 923221	A1	19990616	EP 98307124	A	19980904	199929 B
CA 2247729	A1	19990609	CA 2247729	A	19980921	199948
US 6477249	B1	20021105	US 98156740	A	19980917	200276

Priority Applications (No Type Date): GB 9726037 A 19971209

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 923221	A1	E 18	H04M-011/06	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT				
LI LT LU LV MC MK NL PT RO SE SI				
CA 2247729	A1	E	H04M-011/06	
US 6477249	B1		H04M-001/00	

**Splitter separating telephony traffic from xDSL traffic at higher frequency**

Abstract (Basic):

... speech traffic uses a filter providing good impedance match with a telephony terminal or line **card** to minimize detrimental effects on side tone and echo performance impairing user's speech quality. The filter response is varied based on a **detected** property of the telephony traffic such as amplitude or rate of change of amplitude of

... For separating telephony traffic from further traffic occupying higher frequency band such as **digital subscriber line** traffic, and relates to a filter for use in filtering telephony traffic...

...Provides adequate low pass filtering of the **POTs** traffic to prevent corruption of **xDSL** traffic operating in frequency bands above the voice frequencies...

...The drawing shows a splitter for use in a network for delivering **POTs** and broadband services to a subscriber...

**18/3,K/11** (Item 11 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

012154207 \*\*Image available\*\*  
WPI Acc No: 1998-571119/199849

XRPX Acc No: N98-444512

Test procedure for digital telephone subscriber lines - includes use of controlling computer to operate card sending test signals through digital lines to second receiving test card for verification of line response

Patent Assignee: FRANCE TELECOM SA (ETFR )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2762744	A1	19981030	FR 975163	A	19970425	199849 B

Priority Applications (No Type Date): FR 975163 A 19970425

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
FR 2762744	A1	11	H04Q-001/22	

Test procedure for digital telephone subscriber lines - ...

...includes use of controlling computer to operate card sending test signals through digital lines to second receiving test card for verification of line response

...Abstract (Basic): use of a computer application program (4) which control a first electronic board (1). The card emits an identification signal applicable to the connected subscriber line, before a digital multiplexer (6), towards a second electronic card (7) ...

...The second electronic card is loaded as the line commutator (9,10, or 11) for the subscriber (12,13...

...ADVANTAGE - Allows full testing of digital subscriber line , or group of lines to enable identification and location of connection fault...

...Title Terms: CARD ;

?



28/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015576027 \*\*Image available\*\*  
WPI Acc No: 2003-638184/200361  
XRPX Acc No: N03-507735

Line card for telecommunications system includes multimode circuit with  
xDSL interface for supporting symmetric and asymmetric telecommunication  
services

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE )  
Inventor: DOMBKOWSKI K E; POSTHUMA C R  
Number of Countries: 029 Number of Patents: 004  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1207673	A1	20020522	EP 2001309266	A	20011031	200361 B
JP 2002232562	A	20020816	JP 2001348930	A	20011114	200361
BR 200105122	A	20020625	BR 20015122	A	20011107	200361
CN 1359224	A	20020717	CN 2001130507	A	20011115	200361

Priority Applications (No Type Date): US 2000713745 A 20001115

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1207673	A1	E	12	H04M-003/00	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT					
LI LT LU LV MC MK NL PT RO SE SI TR					
JP 2002232562	A		9	H04M-003/00	
BR 200105122	A			H04M-003/00	
CN 1359224	A			H04M-003/42	

Line card for telecommunications system includes multimode circuit with  
xDSL interface for supporting symmetric and asymmetric telecommunication  
services

...Inventor: POSTHUMA C R

Abstract (Basic):

... The line card includes a multimode circuit with an xDSL  
interface for supporting symmetric and asymmetric telecommunication  
services.

... An INDEPENDENT CLAIM is also included for a method for  
supporting POTS and symmetric/asymmetric digital subscriber line  
services...

...The figure shows a block diagram of a communication system with line  
card which supports POTS service and digital subscriber line  
services...

International Patent Class (Main): H04M-003/00 ...

... H04M-003/42

...International Patent Class (Additional): H04M-011/00 ...

... H04M-011/06 ...

... H04M-017/00

28/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014836082 \*\*Image available\*\*

WPI Acc No: 2002-656788/200270

XRPX Acc No: N02-519245

**Splitter unit connecting system for digital subscriber loop, has splitter unit with port which is electrically connected to connector of interface circuit of switch in central office**

Patent Assignee: FOSS T J (FOSS-I); NORDIN R A (NORD-I); SAND P R (SAND-I); YOUNG C L (YOUN-I)

Inventor: FOSS T J; NORDIN R A ; SAND P R; YOUNG C L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020106075	A1	20020808	US 2001776388	A	20010202	200270 B

Priority Applications (No Type Date): US 2001776388 A 20010202

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020106075	A1	12	H04M-001/00	

...Inventor: NORDIN R A

Abstract (Basic):

... For digital subscriber loop ( DSL ) used for telecommunication applications...

...The splitter unit is compatible with standard wiring for POTS and thus desirably allows an addition of DSL service...

International Patent Class (Main): H04M-001/00

**28/3,K/3 (Item 3 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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014376793 \*\*Image available\*\*

WPI Acc No: 2002-197496/200226

XRPX Acc No: N02-150037

**DSL -compatible plain old telephone service line card for telephone lines , has termination impedance compensator that compensates low pass filter effect on two wire subscriber line**

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE )

Inventor: NORDIN R A ; POSTHUMA C R ; SAND P R

Number of Countries: 028 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1175077	A2	20020123	EP 2001300758	A	20010129	200226 B
CA 2348286	A1	20020117	CA 2348286	A	20010523	200226
JP 2002077385	A	20020315	JP 2001210517	A	20010711	200234

Priority Applications (No Type Date): US 2000617446 A 20000717

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 1175077	A2 E	8	H04M-011/06	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

CA 2348286 A1 E H04M-001/738

JP 2002077385 A 7 H04M-003/00

**DSL -compatible plain old telephone service line card for telephone lines , has termination impedance compensator that compensates low pass filter effect on two wire subscriber line**

Inventor: NORDIN R A ...

... POSTHUMA C R

Abstract (Basic):

... processor (240) connected between codec and switch, has low pass filter (248) to filter residual DSL signals and termination impedance compensator (254) to compensate low pass filter effect on two wire...  
... Line card is used without modification to provide POTS service where XDSL service is not desired by subscriber. Hence, an improved line card is provided...

...The figure shows the block diagram of DSL ready line card connected to XDSL line card...

International Patent Class (Main): H04M-001/738 ...

... H04M-003/00 ...

... H04M-011/06

International Patent Class (Additional): H04M-011/00

28/3,K/4 (Item 4 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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013762453 \*\*Image available\*\*  
WPI Acc No: 2001-246664/200126  
XRPX Acc No: N01-175672

Automatically determining high speed service capability of subscriber line for e.g. XDSL, HDSL and ADSL services

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE )

Inventor: POSTHUMA C R

Number of Countries: 029 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1073247	A2	20010131	EP 2000306064	A	20000717	200126 B
CA 2314516	A1	20010130	CA 2314516	A	20000725	200126
JP 2001086198	A	20010330	JP 2000228344	A	20000728	200134
KR 2001021158	A	20010315	KR 200044196	A	20000731	200159
US 6456694	B1	20020924	US 99364154	A	19990730	200266

Priority Applications (No Type Date): US 99364154 A 19990730

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1073247 A2 E 10 H04M-003/22

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI

CA 2314516 A1 E H04M-003/22

JP 2001086198 A 7 H04L-029/14

KR 2001021158 A H04L-012/22

US 6456694 B1 H04M-001/24

Automatically determining high speed service capability of subscriber line for e.g. XDSL, HDSL and ADSL services

Inventor: POSTHUMA C R

Abstract (Basic):

... For packet data services provided over conventional switched telephone lines e.g. XDSL, ADSL and HDSL digital subscriber line systems...

...International Patent Class (Main): H04M-001/24 ...

... H04M-003/22  
...International Patent Class (Additional): H04M-003/00 ...  
... H04M-003/08 ...  
... H04M-003/30

28/3,K/5 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013441126 \*\*Image available\*\*  
WPI Acc No: 2000-613069/200059  
Related WPI Acc No: 2000-188680; 2000-188698; 2000-188700  
XRPX Acc No: N00-454190  
Loop telephone line assemblies for digital subscriber line DSL  
services and plain old telephone service POTS uses long loop  
telephone hybrid lines  
Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE )  
Inventor: POSTHUMA C R  
Number of Countries: 026 Number of Patents: 002  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
EP 1014657 A1 20000628 EP 99309983 A 19991210 200059 B  
JP 2000196717 A 20000714 JP 99363586 A 19991222 200059

Priority Applications (No Type Date): US 98220174 A 19981223  
Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
EP 1014657 A1 E 8 H04M-001/76  
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI  
JP 2000196717 A 6 H04M-001/00  
Loop telephone line assemblies for digital subscriber line DSL  
services and plain old telephone service POTS uses long loop  
telephone hybrid lines  
Inventor: POSTHUMA C R

Abstract (Basic):

... long loop telephone line are used to provide uniform  
response for voice communication in order to extend the frequency...  
... An INDEPENDENT CLAIM is also included for method of enabling  
DSL service on a long plain old twisted pair loop...

... Digital subscriber line DSL and plain old telephone  
service POTS .

International Patent Class (Main): H04M-001/00 ...  
... H04M-001/76

28/3,K/6 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013281615 \*\*Image available\*\*  
WPI Acc No: 2000-453550/200040  
XRPX Acc No: N00-337829

**Allocating overhead voltage method in response to communication state of public old telephone services ( POTS ) and digital subscriber line services ( XDSL ) signals using line drivers controlled by processor**

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE )

Inventor: POSTHUMA C R

Number of Countries: 028 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1011250	A1	20000621	EP 99310109	A	19991215	200040 B
JP 2000201218	A	20000718	JP 99358240	A	19991217	200040
CA 2292310	A1	20000618	CA 2292310	A	19991214	200044
KR 2000052503	A	20000825	KR 9958573	A	19991217	200121
CA 2292310	C	20030729	CA 2292310	A	19991214	200356
EP 1011250	B1	20030723	EP 99310109	A	19991215	200356
DE 69909722	E	20030828	DE 609722	A	19991215	200364
			EP 99310109	A	19991215	

Priority Applications (No Type Date): US 99328102 A 19990608; US 98112938 P 19981218

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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EP 1011250	A1	E 12	H04M-003/00	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

JP 2000201218	A	8	H04M-003/00	
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CA 2292310	A1	E	H04M-019/00	
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KR 2000052503	A		H04M-003/22	
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CA 2292310	C	E	H04M-019/00	
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EP 1011250	B1	E	H04M-003/00	
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Designated States (Regional): DE FR GB

DE 69909722	E		H04M-003/00	Based on patent EP 1011250
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**Allocating overhead voltage method in response to communication state of public old telephone services ( POTS ) and digital subscriber line services ( XDSL ) signals using line drivers controlled by processor**

Inventor: POSTHUMA C R

Abstract (Basic):

... The processor (135) determines the voltages needs of the line driver (125) depending on the POTS state, XDSL state and loop conditions of the system (100), using the detection circuitry of the telephonic...

... For transmission of POTS and XDSL signals in a communication system...

...The maximum data rates are used for XDSL signals and high voice quality is achieved for POTS signals...

International Patent Class (Main): H04M-003/00 ...

... H04M-003/22 ...

... H04M-019/00

...International Patent Class (Additional): H04M-007/00 ...

... H04M-011/00 ...

... H04M-011/06

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